

7000+ PRODUCTS 570+ NEW PRODUCTS 548 PAGES
2017 ENGINEERING AND SCIENTIFIC CATALOGUE



**Imagine
what's next.**

A Letter to Our Customers:

Boy, this year went fast! It seems like only yesterday that I penned the catalogue letter which highlighted the 50th anniversary of commercial grade Integrated Circuits.

Well, that's now yesterday's news.

What has happened in the last 12 months has been, in many ways, further refinement of existing electronics technology. More on that later.

Last year we also had a cover illustration that was a montage of hundreds of workbench photos sent in by our enthusiast customers. This has proven to be a tremendously successful initiative and we were sorely tempted to do it again. One keen enthusiast in particular missed sending his workshop pic in on time and we decided to reproduce his photo on page 174. As you can see by his vintage gear, we hope to sell him some upgraded workshop equipment in 2017. He sure needs it!

This year we have replaced the pics of customers workshops with pics of many customers actual projects. Some of the projects are very ambitious with emphasis on robotic-type projects almost all of which feature Arduino controllers.

Take the time to look these up, as we have already picked one to feature in a Silicon Chip project in 2017.

We are staggered by the breadth of skill and imagination that has gone into some of these undertakings.

P.S. We received more project pics than we could fit in the catalogue. So if your project missed out, it was not because we thought your offering was inferior, we just could not fit it in! Please don't be disheartened by this. We've created a web page for all the projects so you can visit and see your project and others - www.jaycar.com.au/builds

This year we actually have 4 different covers. These covers represent the diversity of our customers in the 21st Century. Of course, this includes the hardcore band of enthusiasts, but they are not as photogenic!

My favourite is the pic of Amy (9 years). Amy represents the growing number of girls (and women) who are choosing to pursue electronics/computing/robotics as a career/hobby. On this note, on page 334 you will see details of the Code Camp, which Jaycar is supporting. We are very excited about this initiative and the growing schools curricula that are based around coding as well.

Talking of Arduino, we have further increased our range in this area. It is a very fast-growing part of our expanding portfolio.

You will also notice that we are now carrying a range of brand name products which include Panasonic®, SWANN®, and GME®.

Apart from our excellent range of security cameras, DVR's etc., SWANN's fantastic range of state-of-the art security products has further established our dominance of the home/office

security area. Why buy off the web when you pay no more and get expert advice and seriously long warranties?

We have also put in a range of quality Japanese Panasonic cordless phones and accessories. They are the dominant supplier in this market and we could not find own-brand product that would compete. We have also introduced the fantastic GME brand back (after a long absence) to our shelves. They offer outstanding performance/value in communications equipment.

Another venerable manufacturer of quality power supply equipment MEAN WELL has been completely reappraised for 2017. If you go to pages 30-32 of this catalogue, you will find a vast new range of MEAN WELL products, including a great new range of enclosed power supplies, mini power supplies, new compact DIN-rail types, desktop units, fantastic new LED driver types and – really exciting – DIMMABLE, low power factor LED driver power supplies. We have been selling MEAN WELL switch mode power supplies for over 17 years and we are constantly astonished by their ability to remain on top of this competitive market. We get almost 0% returns. True. Amazing.

We also have a number of Silicon Chip projects as kits this year which include a 12-48VDC 40A Motor Speed Controller and Universal Temperature Alarm Kit.

Apart from that, check out our new Lab Power Supply (pg 34), TV Remote Controls (pg. 84), TV Antennas (p. 95), Turntables (p. 104), Pocket World Band Radio (p. 106), Home Amplifiers (p. 108), Party Lights (p. 127), SMA Adaptors (p. 145), Soldering Stations (p. 171), Workbench Storage (p. 185), Crimping Tools (p. 210), USB Powerbanks (p. 364), Network Routers and Extenders (p. 387), Wireless Surveillance Systems (p. 410), Dash Cams (p. 465), Jump Starters (p. 498), and Action Cameras (pg. 520).

Finally, in new products, we are delighted to be able to say that we have REINTRODUCED two new wind generators this year – a 500W model and a massive 2000W model. They are very high quality units indeed and have their place in 2017 as renewable energy sources. Check them on page 39.



It goes without saying that it is a constant job to keep our ever-expanding website up to date for the growing number of you who both shop and interface with us this way. We are proud of our website and we encourage feedback on this.

It seems that, in the world of electronics, robotics, Arduino®, and IoT there is always a lot to talk about.

Despite this, some things just don't change. We are all still enthusiasts here, we love our hobby and we love serving you our dear, loyal customers. We hope that you enjoy this catalogue, (which we work very hard on,) and we look forward to being of service to you in 2017 and beyond.

Best wishes,
Gary Johnston.

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ORDER HOWEVER YOU LIKE

VISIT YOUR LOCAL JAYCAR STORE

With over 100 stores in Australia and New Zealand our network of retail stores continues to grow. Come and visit us at one of these locations - see our website or the back cover for full address, phone and trading hours details. Our friendly, experienced staff look forward to showing you our extensive range of products.

CALL OUR TOLL FREE HOTLINE 1800 022 888

Our experienced Techstore staff are waiting to take your order. Techstore operates Monday to Friday 8.30am to 5.30pm and Saturday 8.30am to 5.00pm (AEST).

ORDER ONLINE [WWW.JAYCAR.COM.AU](http://www.jaycar.com.au)

Place orders from the convenience of your home on our secure website 24 hours a day, 7 days a week.

POST YOUR ORDER

Enclose your completed order form (on page 527) and send to:

Jaycar Electronics

PO Box 7172

Silverwater DC NSW 1811 Australia

FAX YOUR ORDER (02) 8832 3318

Complete your order form (on page 527) and fax it any time.

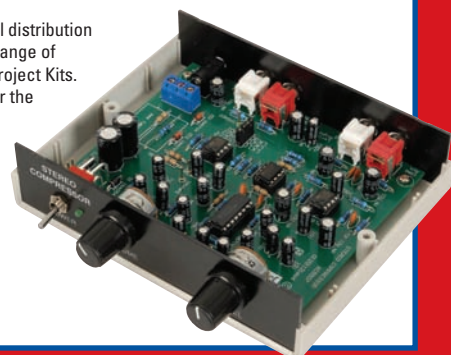
KIT BACK CATALOGUE

www.jaycar.com.au/kitbackcatalogue
or see page 312.

We maintain in our central distribution warehouse an extensive range of discontinued Electronic Project Kits.

Place your order online for the Kit Back Catalogue kits.

On our website each of these kits has a full description and, where available, a link to the original article on the Kit.



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Talk to the Techstore

YOUR VIRTUAL ACCESS POINT

In a case where you are unable to get to your local Jaycar store, we provide you with the Jaycar Techstore. Phone or email your order to us at any time, or alternatively you may speak to one of our professional shop trained staff members who will be able to assist you.

FREECALL ORDER LINE:

1800 022 888

Monday to Friday 8.30am to 5.30pm
Saturday 8.30am to 5.00pm (AEST)

ORDER VIA EMAIL:

techstore@jaycar.com.au



ICON GUIDE



This is a brand new product for the Jaycar 2017 Catalogue. We're excited to bring it into our ranges!



These are products that are often useful or complimentary to the products on the page.



**VIDEO
ONLINE**

A video providing more information is available on our website and our YouTube channel.



**MORE INFO
ONLINE**

More information, specs, drivers, or manuals for this product are available on our website.



DIY

This product includes some components that you have to build or assemble yourself.



**BOOK
AVAILABLE**

Learn more with our vast range of books. Look out for this book icon or see our index on page 545.



**NEW LOW
PRICE**

We've permanently dropped the price on this product - we're passing on those savings to you.



WARRANTY

PRODUCT WARRANTY

These icons indicate the Warranty of a product, or if located on the top right hand corner of a page, the Warranty for all the products on that page. Warranty only covers faults in manufacture, unless stated otherwise.

TECH TALKS

Our team of dedicated electronics experts suggest these tips for our catalogue to encourage you to experiment and think outside the box when it comes to your electronics projects.



NERD PERKS: DOUBLE POINTS BANNER

This product offers double points for members of our Nerd Perks Rewards programme. Nerd Perks members receive additional specials and bonuses too. See page 7 for more information!



DIY BUILD COMPETITION

This customer build submission was one of our favourites, and has won a \$100 Jaycoins gift card. See page 12 for more information!

Search, Browse & Buy Anytime, Anywhere.



Click and Collect is now available at selected stores! Simply place your order online and the team at your local store will get the order together for you, ready to collect in just 2 hours!

Visit us: www.jaycar.com.au

Everything you could need in one convenient location, our website gives you a convenient resource for all things Jaycar, and Jaycar related.

- Product information
- Videos
- Datasheets
- Store locations
- Monthly advertising
- Online exclusive specials and deals
- Promotions

FIND YOUR PRODUCTS

Find products with ease. Our website is fully integrated to our back-office systems, so it is always live with the most complete, accurate and up to date information. Searching is a breeze with a powerful keywords engine; similar and relevant items can be compared side by side for you to always find the most suitable product for your needs.

FLYERS & CATALOGUE

Jaycar issues 20 flyers full of new products, specials, deals and rewards bonuses each year. You probably get one at your local store, or even in your mailbox, but you can also download a digital copy and make sure you don't miss out on the great offers. We have also made an electronic PDF copy of this great catalogue which you can download and share freely.

SHOP ONLINE

Many of our customers choose to shop online with us because it is simple, reliable and saves tonnes of time. With our website, you can find all the information you need before purchase. Checkout is simpler to save you more time, and special deals are easier to spot to save you more dollars.

STORE FINDER

Even the most die-hard brick and mortar shop loyalist will appreciate this website as it's extremely simple to locate your nearest Jaycar store. We have over 300 company owned stores and authorised stockists across Australia and New Zealand. Simply enter your postcode or area to find the closest one to you.

MULTIMEDIA RESOURCES

Find out more about products and technologies not only in text, specifications and data manuals, but also in high resolution pictures and demonstrative videos.

NEW PRODUCTS, SPECIALS, AND CLEARANCE ITEMS

Watch this space closely as we constantly update it with new products, latest promotions and clearance sales. You will also see special events and important announcements on the pages, such as sporting stars visiting your local stores!

SIZE DOES NOT MATTER!

Our new website is fully scalable so whether you are using a PC or Mac on the desk, or a Tablet on the couch, or even a Smartphone on the go, they are always 100% compatible with full functionality.



facebook.com/jaycarelectronics



instagram.com/jaycar_electronics



twitter.com/jaycarau



youtube.com/user/JaycarVideo

Cash In On Your Trade

SAVE WITH SPECIAL PRICING FOR TRADE CARD HOLDERS

If you're professionally engaged in the electronics industry, or use electronics in your day-to-day operations (eg, you're a builder, a repairer) or other industry, then a Jaycar Trade Card is for you!

You could be a Telecomms Tech, an electrician or tech installing computer networking, a TV antenna or cable TV installer, repairman, an alarm installer or a computer hardware repairer. It's possible that you work for a TV or radio station or a company that just has heaps of electronic equipment to constantly maintain.

This is where the Jaycar Trade Card can save you real money.

While some companies are dedicated to supplying "trade", they're often less convenient than finding one of over 100 Jaycar stores in Australia and New Zealand that you can just walk into and purchase what you need. If you don't happen to be nearby, our Techstore is just an email or phone call away and can accept Trade Card purchases too.

Special trade discounts mean you'll save 5 to 40% on most items, off our already competitive prices! Buy in bulk and the savings are even better! If you're buying frequently, we can also set you up with an account, to simplify purchasing and account reconciliation for your business.

Of course, restrictions and qualifying criteria apply, but you can apply online, at your local store, or via the Techstore.

**Not available for transactions outside Australia and New Zealand. They are valid at Jaycar company owned stores ONLY. Products on special excluded.*



To apply for a Jaycar Trade Card*, visit:
www.jaycar.com.au/tradecard

Gift Cards

FOR ALL OCCASIONS

Can't decide what to buy for that "hard to buy for" person? Give them a gift card! These are available for purchase in-store or online. These are a great gift idea.

Buy at your local store* or online at:
www.jaycar.com.au/giftcards

**Company owned Jaycar stores only in Australia and New Zealand. \$20 minimum value. Full terms and conditions on our website.*



JOIN THE CLUB... ENJOY THE PERKS!

(even if you're just a nerd on the inside)

NERD PERKS

Over the last 12 months we had over 120,000 people join our Nerd Perks Rewards Programme. Welcome all! Every Nerd Perks Member enjoys members only monthly promotional deals (in-store and online) and accrue points with EVERY purchase. Once their points reach 500, Jaycar issues them a \$25 Jaycoins Gift Card for use in any Jaycar company-owned store.

NOT A MEMBER?

Don't miss out join today. It is easier than ever to sign up:

1. In-store - fill out the Nerd Perks application and one of our staff can add you and activate your club card
2. Online - apply online and we'll send you your card

You can start accumulating points straight away!

ALREADY A MEMBER?

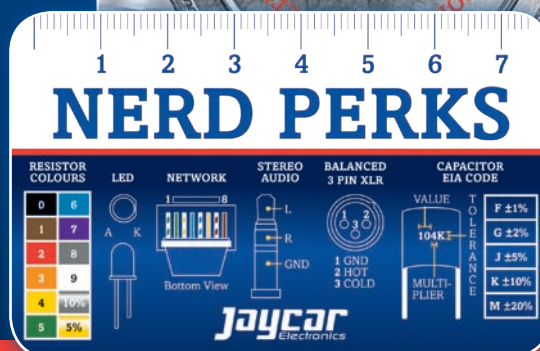
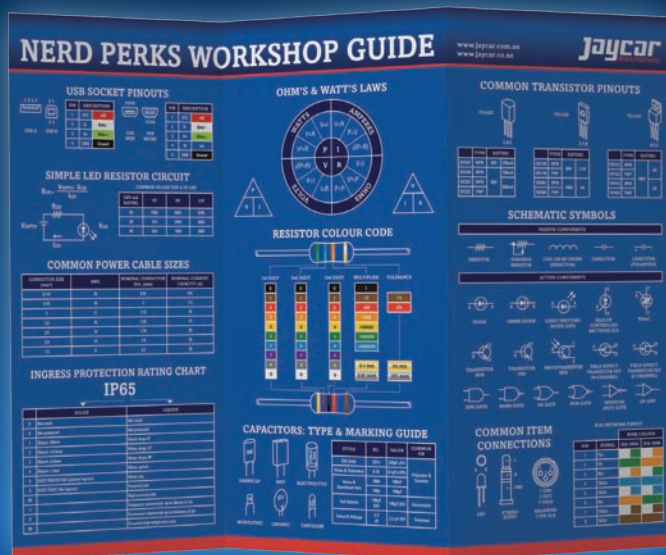
You can check your accumulated points balance:

- Online
- In-store
- On-the-go (Smartphone App coming soon)

We are constantly reviewing our Nerd Perks Program and want to thank all the Nerd Perks Members who took the time to complete our recent survey. We appreciate your time and comments. We won't be able to implement all your suggestions but look out for improvement and additions to Nerd Perks over the coming months.

Toni Martin

Group CEO, Jaycar Electronics



NERD
PERKS

2x
POINTS

LOOK FOR THE DOUBLE POINTS
BANNER IN THIS CATALOGUE

PLUS SPECIAL PROMOTIONAL
DEALS JUST FOR CLUB MEMBERS.
LOOK OUT FOR THEM AND LOTS MORE!

To apply for Nerd Perks*, visit:

www.jaycar.com.au/nerdperks

**NEW
2017**

New Products

We have added hundreds of great new products this year. Here's some of them!



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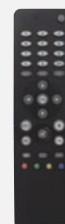
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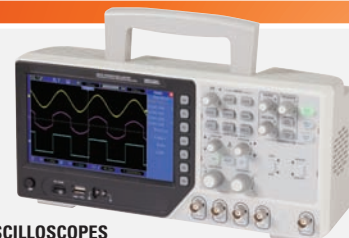
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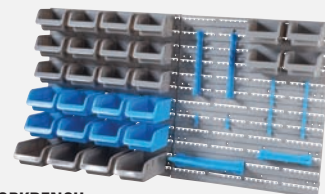
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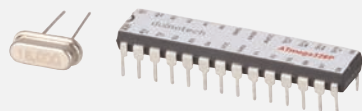
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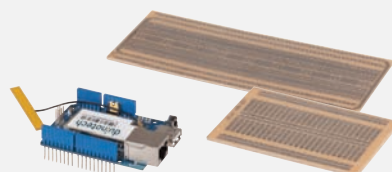
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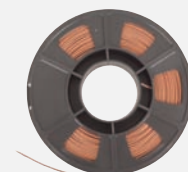
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WINNER: KITS & ELECTRONICS

SENT TO US BY SAM - SHOPS AT NEWMARKET, NZ
 Custom H8 20kg UAV with 10kg test weight. Built by myself Sam Britten. Tools, wire, solder, heat shrink, HDMI cables, HD SDI to HDMI converter and flight controllers box all from Jaycar.

**WINNER: TOOLS**

SENT TO US BY AARON - SHOPS AT THOMASTOWN, VIC
 My mini desktop drill press, motorised sliding rail and a 45 degree drill mount.



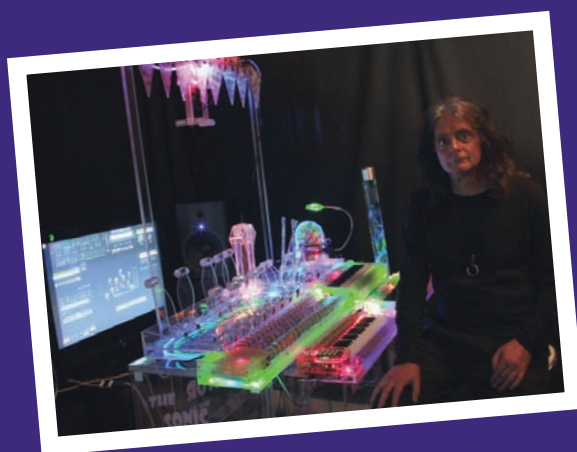
SHOW US YOUR BUILDS:



**WINNERS
 OF A \$1000 JAYCOINS CARD EACH!**

**WINNER: POWER**

SENT TO US BY MARK, NSW - SHOPS AT A JAYCAR STOCKIST
 We were unable to get NBN Fixed wireless at our house, but could in the back paddock. Thanks to some Jaycar solar power products (battery, charge controller and 24-12V DC-DC converter and a bunch of cables and fuses) we've now got a radio relay station beaming the NBN connection down to our house.

**WINNER: ENTERTAINMENT**

SENT TO US BY CLAUDE - SHOPS AT MIDLAND, WA
 I spent pretty much all last year building this arduino-based set of MIDI controllers. There's the Claudeatron (mk4), Whackatron (Percussion), Claude Controller, Astro Gears (Looping), the Footsie 100 (pedalboard) & 3 modified keyboards. For a cool vid Google 'Claude's Marvelous MIDI Music Machine'.

Power & Smart Energy.



POWER

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"PLUGPACKS" & SMALL SCALE POWER SUPPLIES

When we first produced the Jaycar catalogue over 35 years ago, all power supplies were fitted with a 240V stepdown transformer. The transformers could be quite small - down to 3VA (3 watts approx.). They were relatively heavy (some would fall out of a power point) and all were fairly inefficient.

Today, almost no plugpack or small scale power supplies have transformers, except AC-to-AC plugpack-type adaptors, the rest use what is called Switchmode technology.

"Switchmode" type power supplies are in fact very clever. If you don't know how they work, look them up on Google, etc.. There is not enough room here to give you a primer.

Not only are they lighter and far more efficient than transformer-type ("linear") power supplies, they are capable of providing far more DC power in a smaller size. I have a switchmode 'stick' welder at home that is about the size of a loaf of bread but will deliver up to 120A to weld very heavy

steel objects indeed. The welder weighs about 5kg and replaced a transformer model that weighed over 100kg.

A switchmode power supply will also typically recognise the mains voltage that is being fed to them. You can, for example, take an AU/NZ 230/240V AC adaptor and use it on 110-115 volts overseas (with a plug pin adaptor) and not need to buy a special 115V unit. (Always check that your adaptor will do this of course).

All-in-all, switchmode technology is a clear winner. They are generally also more reliable and offer similar levels of dielectric isolation to transformer types.

Gary Johnston.



AC ADAPTORS - UP TO 1.7 AMP							FIXED VOLTAGE	MULTI VOLTAGE	UNREGULATED	DESKTOP STYLE	
Voltage & Amps	400mA	500mA	550mA	600mA	800mA	1A	1.2A	1.25A	1.35A	1.5A	1.7A
3.0VDC						MP-3310				MP-3312	
4.5VDC						MP-3310				MP-3312	
5.0VDC						MP-3144 MP-3310				MP-3312	
6.0VDC					MP-3145	MP-3310				MP-3312	
7.5VDC					MP-3310					MP-3312	
9.0VDC		MP-3146	MP-3280		MP-3310	MP-3312				MP-3314 MP-3318	MP-3484
9.0VAC						MP-3027					
12VDC	MP-3147 MP-3282	MP-3011		MP-3310		MP-3312				MP-3486 MP-3314 MP-3318	
12VAC						MP-3026					MP-3058
13.5VDC										MP-3318	
15VDC										MP-3318	
15VAC										MP-3059	
16VAC								MP-3021			
18VDC							MP-3318				
20VDC							MP-3318				
24VDC						MP-3318		MP-3494			
24VAC						MP-3032					
48VDC								MP-3256	MP-3249		

AC ADAPTORS - FROM 2 AMP TO 10 AMP								FIXED VOLTAGE	MULTI VOLTAGE	UNREGULATED	DESKTOP STYLE	
Voltage & Amps	2.0A	2.1A	2.2A	2.25A	2.5A	2.7A	3A	3.42A	5A	6.25A	8.5A	10A
3.0VDC		MP-3314		MP-3316	MP-3308							
4.5VDC		MP-3314		MP-3316								
5.0VDC		MP-3314		MP-3316	MP-3308		MP-3480					
6.0VDC		MP-3314	MP-3482	MP-3316	MP-3308							
7.5VDC		MP-3314		MP-3316								
9.0VDC				MP-3316	MP-3308		MP-3496					
9.0VAC												
12VDC				MP-3316	MP-3490 MP-3308				MP-3242 MP-3243 GH-1379 MP-3252		MP-3258	MP-3241
12VAC											MP-3043	
13.8VDC					MP-3308							
15VDC	MP-3492											
19VDC								MP-3246				
24VDC					MP-3254	MP-3248						
24VAC										MP-3045		

SWITCHMODE AC ADAPTORS

They are extremely light and compact; enough to snugly and neatly fit side by side on a powerboard - no more wasted AC outlets! They incorporate high-efficiency circuitry, built in EMI filter, short circuit protection, over current protection and thermal shutdown capability.



Ideal for use with power boards

5 Watt - Ultra-Slim

- Input: 100-240VAC 50/60Hz
- Fit side-by-side on a powerboard
- Supplied with 7 plugs
- 1.7m lead
- Safety Approval No. GMA102513EA
- Meets MEPS requirements



▲ Voltage VDC	Current Amps	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
5	1	GMA102513EA	MP-3144	\$17.95	\$15.95	\$14.35
6	0.8	GMA102513EA	MP-3145	\$17.95	\$15.95	\$14.35
9	0.5	GMA102513EA	MP-3146	\$17.95	\$15.95	\$14.35
12	0.4	GMA102513EA	MP-3147	\$17.95	\$15.95	\$14.35

15 Watt - Slim High Power

Regulated output voltage, small size and higher power output make these AC adaptors suitable for thousands of different applications.

- Input: 100-240VAC 50/60Hz
- Fit side-by-side on a powerboard
- Supplied with 7 plugs
- Safety Approval no. NSW25014
- Meet MEPS requirements



▲ Voltage VDC	Current Amps	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
5	3.0	NSW25014	MP-3480	\$24.95	\$22.35	\$19.70
6	2.2	NSW25014	MP-3482	\$24.95	\$22.35	\$19.70
9	1.7	NSW25014	MP-3484	\$24.95	\$22.35	\$19.70
12	1.5	NSW25014	MP-3486	\$24.95	\$22.35	\$19.70

25 Watt - Extra High Power

- Input: 100-240VAC 50/60Hz
- Huge output power
- Supplied with 7 plugs
- Safety Approval no. NSW25260
- Meet MEPS requirements



▲ Voltage VDC	Current Amps	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
9	3.0	NSW25260	MP-3496	\$29.95	\$26.95	\$23.95
12	2.5	NSW25260	MP-3490	\$29.95	\$26.95	\$23.95
15	2.0	NSW25260	MP-3492	\$29.95	\$26.95	\$23.95
24	1.25	NSW25260	MP-3494	\$29.95	\$26.95	\$23.95

MULTI - VOLTAGE

Switchmode Plugpacks with USB Outlets

These switchmode plugpack adaptors are slim in size, lightweight, and feature manually selectable variable voltage outputs. All are MEPS compliant and come supplied with 7 plugs and a USB output socket. (MP-3318 does not include USB socket)

Five models available:

7.2W 3-12VDC	Cat. MP-3310	27W 3-12VDC	Cat. MP-3316
12W 3-12VDC	Cat. MP-3312	25W 9-24VDC	Cat. MP-3318
18W 3-12VDC	Cat. MP-3314		

SPECIFICATIONS	MP-3310	MP-3312	MP-3314	MP-3316	MP-3318
Input voltage	100 - 240VAC	100 - 240VAC	100 - 240VAC	100 - 240VAC	100 - 240VAC
Output voltage	3, 4.5, 5, 6, 7.5, 9, 12VDC	3, 4.5, 5, 6, 7.5, 9, 12VDC	3, 4.5, 5, 6, 7.5, 9, 12VDC	3, 4.5, 5, 6, 7.5, 9, 12VDC	9, 12, 13.5, 15VDC @ 1.5A, 18, 20VDC @ 1.2A, 24VDC @ 1A
Output current	600mA (max)	1000mA (max)	1500mA (max)	2250mA (max)	
Dimensions	69(L) x 39(W) x 31(H)mm	75(L) x 44(W) x 44(H)mm	82(L) x 52(W) x 45(H)mm	80(L) x 65(W) x 50(H)mm	96(L) x 50(W) x 30(H)mm

▲ Voltage VDC	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
3 - 12	NSW24400	MP-3310	\$19.95	\$17.95	\$15.95
3 - 12	NSW24400	MP-3312	\$24.95	\$22.35	\$19.70
3 - 12	SAA091002EA	MP-3314	\$29.95	\$26.95	\$23.95

▲ Voltage VDC	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
3 - 12	SAA091002EA	MP-3316	\$34.95	\$31.45	\$27.90
9 - 24	SAA091002EA	MP-3318	\$34.95	\$31.45	\$27.90

POWER SUPPLY ACCESSORIES

In-Line Low Voltage Switch

Simply connect your plug pack adaptor into this in-line switch to provide quick and easy on/off control. Much easier than unplugging the connector or reaching for the power point when you want to switch your device on or off. 2.1mm DC plug & socket - rated at 24VDC at 2 amps.



Product may vary from the one shown

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SK-0998	\$7.95	\$6.95	\$6.25

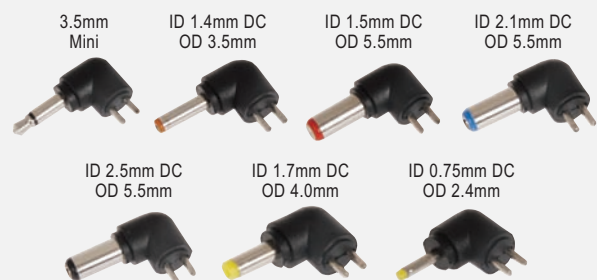
7 Plug DC Wiring Kit - 1.8m

Configure your own plugpacks or wire to projects to give standard DC output plugs. Includes the same socket and 7 DC plugs as supplied with our range of switchmode AC plugpack adaptors.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	PP-1980	\$8.95	\$8.05	\$7.15

The 7 plugs supplied with switchmodes are shown here



RELATED PRODUCTS

FROM
\$9.95
MS-4040



POWERBOARDS

P20

FROM
\$1.85
HP-1200



CABLE TIES

P168

FROM
\$4.95
HP-1253



CABLE TAGS

P166

FROM
\$1.95
PP-0503



DC PLUGS

P155

SWITCHMODE AC ADAPTORS (CONTINUED)

DC Output - Regulated 12VDC 500mA

- CCD Camera Power Supply
- Terminates to a 2.1mm ID / 5.5mm OD DC plug, centre positive.



▲ Voltage VDC	Current Amps	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
12	0.5	SAA130443EA	MP-3011	\$19.95	\$17.95	\$15.95

Switchmode Mains Adaptor 3 - 13.8VDC 2.5A

Variable desktop supply with binding post and 7 DC plugs. 1.5m lead - interchangeable plugs.

SPECIFICATIONS	MP-3308
Output voltage	3, 5, 6, 9, 12, 13.8VDC
Output current	2.5A max
Dimensions	140(L) x 80(W) x 42(H)mm



▲ Voltage VDC	Current Amps	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
13.8	2.5	SGSEA/120936	MP-3308	\$39.95	\$35.90	\$31.90

TRANSFORMER TYPE AC ADAPTORS

Most adaptors are supplied with seven different plugs which suit most applications. All are Electricity Authority (SAA) approved.

16VAC 1.25 Amp Alarm Supply

Designed for use with many house alarm panels. Supplied with three metres of cable for connection to alarm.

- Dimensions: 55(W) x 90(H) x 60(D)mm
- Terminated with bare ends



▲ Voltage (AC)	Current (A)	Approval	Cat.	Qty 1+	Qty 5+	Qty 10+
16	1.25	SAA151963EA	MP-3021	\$26.95	\$23.95	\$21.45

5 Watt - Unregulated Ultra-Slim

These super-slimline switchmode AC adaptors give an unregulated DC output, meaning that when loaded below their rated power, they will provide a slightly higher output voltage.

- Input: 100-240VAC, 50/60Hz
- Extra small, will fit side-by-side on a powerboard
- Direct replacement for old transformer type AC adaptors
- Supplied with 7 DC plugs
- Meets MEPS requirements



▲ Voltage VDC	Current Amps	Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
9	0.55	SAA121777EA	MP-3280	\$15.95	\$13.95	\$12.45
12	0.4	SAA121777EA	MP-3282	\$15.95	\$13.95	\$12.45

MONTHLY SPECIALS

Look out for our monthly promotions in store now!

AC Output - Non Regulated - Single Voltage

- (Regulated AC output in a plugpack is not currently feasible).



▲ Voltage (AC)	Current (A)	Approval	Cat.	Qty 1+	Qty 5+	Qty 10+
9	1.0	SAA151963EA	MP-3027	\$26.95	\$23.95	\$21.45
12	1.0	SAA151963EA	MP-3026	\$29.95	\$26.95	\$23.95
12	1.67	SAA151963EA	MP-3058	\$34.95	\$30.95	\$27.95
15	1.5	SAA151963EA	MP-3059	\$29.95	\$26.95	\$23.95
24*	1.0	SAA151963EA	MP-3032	\$26.95	\$23.95	\$21.45

*Stripped and tinned termination

For plugpacks with USB output see page 361

DESKTOP STYLE AC ADAPTORS

These products meet the requirements of Energy Star, the European Commission Code of Conduct, and of course California's legislation, suppliers of electronic equipment requiring an external power supply can ship their products worldwide without needing to understand the complex new systems.

60W - 12V, 19VDC & 45W 24VDC

Versatile switchmode power supplies in a range of different configurations. All have high output currents and are low-profile for easy mounting.

- Each requires a separate IEC 240VAC lead - Cat PS-4106
- Output cable terminated to fixed 2.5mm DC plug except for MP-3243 which includes 5 output plugs

MP-3242/43 = SAA090025EA
MP-3246/48 = SAA090329EA



▲ Voltage(VDC)	Current(A)	Cat.	Qty 1+	Qty 5+	Qty 10+
12	5	MP-3242	\$59.95	\$53.95	\$47.90
12 (5 plugs)	5	MP-3243	\$64.95	\$58.50	\$51.95
19	3.42	MP-3246	\$59.95	\$53.95	\$47.90
24	2.7	MP-3248	\$59.95	\$53.95	\$47.90

65W - 48VDC

48V power supply specifically designed for power over Ethernet applications.

SPECIFICATIONS	MP-3249
Voltage	90 - 264VAC
Output voltage	48V @ 1.35A
Power output	65W Max.
Over voltage protection	Shutdown latch mode
Over current protection	2 step controlled current source
Short circuit protection	Built-in
Efficiency	85% min. at full load



▲ Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
Q080195	MP-3249	\$59.95	\$53.95	\$47.90

120W 12VDC 10A Desktop Style Switchmode Supply

High current switchmode desktop power supply. Suitable for various power requirements, including large surveillance systems to replace a number of smaller plugpacks. DC splitter cables available separately.

- Includes IEC power lead
- Output cable terminated to fixed 2.1mm DC plug

SPECIFICATIONS	MP-3241
Input Voltage	220-240VAC
Output Voltage	12VDC
Output Current	10A
Output Connector	2.1mm DC plug
Output Cable Length	1.2m
Dimensions	174(L) x 72(W) x 44(H)mm



▲ Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
A/14041EA	MP-3241	\$84.95	\$76.45	\$67.95

60W - 12VDC 5A

- Switchmode

SPECIFICATIONS	GH-1379
Input	220 - 240VAC
Output	12VDC @ 5 amps
Dimensions	160(L) x 85(W) x 40(H)mm
Input lead lengths	1.2m
Termination	2 pin connector



▲ Approval Number	Cat.	Qty 1+	Qty 5+	Qty 10+
SAA111923EA	GH-1379	\$34.95	\$30.95	\$27.95

240 - 115V STEPDOWN TRANSFORMERS

STEPDOWN TRANSFORMERS

TECH TALK



A word on isolation. This means that: The primary (240V) & secondary (115V) are totally electrically isolated (Dielectric isolation). This is the safest way of making a mains voltage conversion. We recommend this type of transformer whenever the application is medical or medically related or where the secondary equipment is to be operated in or near water or high moisture environments. Note the 240V earth is carried through to the 115V socket earth. As a further safety measure we now supply the ISOLATED units with resettable circuit breakers.

50 Watt - 240VAC to 115VAC

Includes overheat protection. If the unit gets too hot, the thermal fuse will open, then close after unit cools down, restoring operation. Two pin US socket on unit for 110V appliance and cord plug for 240V power.

- This is not dielectrically isolated. (auto transformer type)
- Not for use in wet areas


1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
50W	MF-1091	\$49.95	\$44.90	\$39.90

Note: These devices are not switchmode, they are AC to AC

Isolated Stepdown Transformers

Quality fully-enclosed stepdown transformer with fold up metal carry handles, approved 3 wire power cord & US style 2 pin 110 - 115V socket.

- Electrically isolated between primary and secondary
- Protective earth carried through to output
- Useable with precision electric & electronic appliances.
- Compact, excellent, safe & robust construction - steel case.
- DO NOT compare these to cheap, non isolated units. Your life is too precious!

Includes a resettable circuit breaker instead of fuse. Now you are not tempted to replace the fuse with a piece of coathanger wire.

Note: Due to heavy weight (11kgs) please check for freight costs



MF-1080



MF-1082



MF-1084



MF-1086

1
YEAR
WARRANTY

SPECIFICATIONS	MF-1080	MF-1082	MF-1084	MF-1086
Rating	120VA (watts) 1.0 amp	250VA (watts) 2.2 amps	500VA (watts) 4.2 amps	1000VA 8.6 amp
Dimensions	125(W) x 74(D) x 90(H)mm	133(W) x 81(D) x 98(H)mm	158(W) x 100(D) x 120(H)mm	195(L) x 120(W) x 140(H)mm
Weight	2.4kgs	3.2kgs	6kgs	11kg

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
240 - 115V 120W	MF-1080	\$119.00	\$106.95	\$94.95
240 - 115V 250W	MF-1082	\$169.00	\$151.95	\$134.95
240 - 115V 500W	MF-1084	\$289.00	\$259.00	\$229.00
240 - 115V 1000W	MF-1086	\$399.00	\$359.00	\$319.00

GARDEN LIGHTING TRANSFORMERS

Designed to power 12V and 24V garden lights from mains power.

All output voltages are AC, not DC.

Note: These devices are not switchmode, they are AC to AC.

240V to 12VAC 105 Watt - Indoor

It will power 2 x 50W halogen globes or 5 x 20 watt. Ideal for 5 x 20W pathway lights, for example. Transformer must be used inside.

- 135(L) x 83(W) x 70(H)mm
- Output is via screw terminals
- 4 holes for easy screw mounting

Cat. MP-3043



240V to 24VAC 150 Watt - Indoor

All globes must be 24V rated

- Output 6.25 amps

Cat. MP-3045


1
YEAR
WARRANTY

▲	Approval No.	Cat.	Qty 1+	Qty 5+	Qty 10+
12VAC 105W	N15653	MP-3043	\$39.95	\$35.90	\$31.90
24VAC 150W	N16803	MP-3045	\$59.95	\$53.95	\$47.90



For Laboratory Power Supplies see page 33

VARIAC

0-260VAC Variable Laboratory Autotransformer (Variac) - 500VA

The variable autotransformer (Variac is the trade name of a popular brand) is one of the most useful and efficient devices ever invented for the control of AC voltage and of voltage-dependent parameters such as current, power, temperature, light intensity, motor speed etc. It enables the AC input to a mains powered appliance to be easily varied from 0 to full line voltage (or greater). Encased in heavy-duty steel housing it also features on/off switch, output-voltage meter, mains-supply lead and standard 3-pin power output. A must for testing appliance performance under real (simulated) mains fluctuations.

- Now supplied with slow blow fuses for extra reliability

Note: These devices are not switchmode, they are AC to AC.

NOT DIELECTRICALLY ISOLATED


1
YEAR
WARRANTY

SPECIFICATIONS	MP-3080
Rated power handling	500 VA (fused)
Input Voltage	240 VAC @ 50Hz
Output Voltage	0 ~ 260 VAC @ 50Hz
Dimensions	165(D) x 120(W) x 160(H)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
240VAC 500VA	MP-3080	\$239.00	\$214.95	\$190.95

RELATED PRODUCTS

FROM
\$9.95
PP-4026



TRAVEL ADAPTORS

P24

FROM
\$69.95
MP-3079



LAB POWER SUPPLIES

P33

FROM
\$5.95
PS-4115



POWER LEADS

P29

FROM
\$15.95
PS-4142



FOREIGN LEADS

P28

MAINS EXTENSION LEADS

Extension Leads - White

These leads have the new "safe socket", which has a flange around it, so kids can't slide a knife in and hurt themselves.

- Off white colour



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2m	PS-4122	\$5.50	\$4.95	\$4.40
3m	PS-4125	\$6.95	\$6.25	\$5.55
5m	PS-4130	\$9.95	\$8.95	\$7.95
10m	PS-4134	\$16.95	\$14.95	\$13.45

Extension Leads - Black

Perfect for stage, lighting, DJ or other applications where the inconspicuousness of a black extension lead is required.

- Rated to 10A max



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2m	PS-4152	\$5.50	\$4.95	\$4.40
5m	PS-4155	\$9.95	\$8.95	\$7.95
10m	PS-4157	\$16.95	\$14.95	\$13.45

Heavy Duty 10A Extension Leads

If you know you're going to be demanding a lot of power, a heavy duty extension cable is the way to go. Especially important for a worksite with power-hungry tools. Heavy duty 1.5mm² copper cable (standard leads are generally 1.0mm²).

- Heavy duty conductors
- Ideal for power tools



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	PS-4198	\$22.95	\$20.45	\$17.95
20m	PS-4200	\$39.95	\$35.95	\$31.95

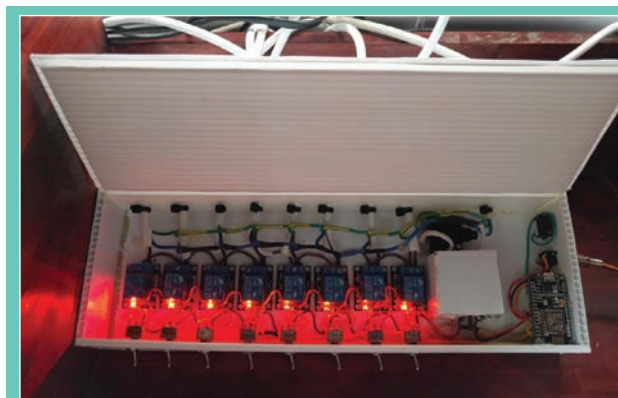
Piggy Back 10A Extension Leads

These extension lead provides you with a piggyback socket so you don't "use up" an outlet where you're plugging it in. Genius!

- Rating: 240VAC @ 10A / 2400W



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1m	PS-4153	\$6.95	\$6.25	\$5.55
3m	PS-4154	\$11.95	\$10.75	\$9.55



SHOW US YOUR BUILD COMPETITION

Warrick, who shops at our Jaycar Ringwood store built:

Arduino Hi-Fi power automation. Control via IR remote or Blynk app from anywhere in the world. Has manual switches for manual on/off or automation mode. Supplies 8 x 240v. Lots of attention paid to electrically sealing components. Coreflute used for chassis. Most parts supplied by Jaycar.

Heavy Duty Dual Output 10A Extension Lead

This is a safe way to connect two power tools, or run two extension leads from one mains outlet. Featuring a fully moulded design, there's no plastic double-adaptor lying around when there doesn't need to be.

- Heavy duty cable
- Moulded Y-split design

SPECIFICATIONS	PS-4196
Voltage	240VAC
Max. Total Load	10A/2400W
Weight	326g
Cable Length	600mm
Cable	3 Core 1.0mm ²



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
600mm	PS-4196	\$14.95	\$13.45	\$11.95

3 Way Round 10A Powerboard with 3m Extension Cord

Featuring three mains outlets and a 3m lead, it's all integrated into a handy cable reel for safe, tangle free storage. When it's time to use it again, just unwind and you're ready to go. Features a master power switch and overload protection.

- Overload protection
- Compact reel
- Master power switch

SPECIFICATIONS	MS-4043
Max Power Rating	240VAC @ 10A / 2400W
Weight	446g
Dimensions	47(H) x 149(D)mm



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3m	MS-4043	\$19.95	\$17.95	\$15.95

4 Way Round Cable Reel with 15m 10A Extension Cord

Combining a powerboard and an extension lead, this powerboard hub saves you from tangled cables and frustration. To use, simply unreel the cable and connect your mains appliances. Once you're finished, disconnect your appliances and use the integrated reel to easily wind the 15m extension lead away. No tangles, no fuss, and it's already set for next time! Also features a master power switch, as well as overload protection.

SPECIFICATIONS	MS-4039
Max Power Rating	240VAC @ 10A / 2400W
Weight	1.8kg
Dimensions	193(W) x 253(H) x 160(D)mm



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
15m	MS-4039	\$49.95	\$44.95	\$39.95

Cable Tidy for Extension Power Leads Up to 25m

No more tangled extension leads! This handy cable tidy will hold a lead up to around 25m long (even a heavy duty one). Simply coil it around and clip the plug and socket into the integrated clips. Then when it's time to use it, unwinding will be an absolute breeze! It even features a carry handle!

Note: Extension lead must be fully uncoiled from the cable tidy before use.

- No more tangles
- Integrated plug & socket clips
- Carry handle



Note: Cable not included

SPECIFICATIONS	PS-4194
Weight	142g
Dimensions	472(W) x 128(H) x 18(D)mm

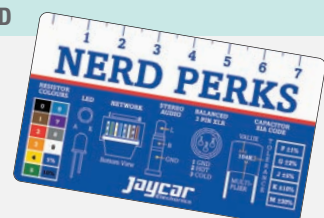
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-4194	\$4.95	\$4.45	\$3.95

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See front of catalogue for details



MAINS HARDWARE - 15A

Portable RCD with 15A to 10A Mains Plug Conversion

Convert your 15A power lead to fit a 10A power outlet whilst adding the additional safety of RCD earth leakage protection. Ideal if you only have a device with a 15A mains plug, and you are located somewhere that does not have a 15A power outlet available.

Features a 10A circuit breaker/RCD in case you accidentally overload the device.

Not suitable for outdoor use, unless combined with our HB-6178 weatherproof case.



SPECIFICATIONS	MS-4044
Voltage	240VAC, 50Hz
Max load	2400W 10A
Rated residual current	30mA
RCD type	AC & DC pulse sensitivity
Dimensions	180(H) x 135(D) x 124(W)mm
Electrical Safety Approval Certificate No.	SAA122512EA



	Cat.	Qty 1+	Qty 4+	Qty 10+
15A to 10A Mains Adaptor	MS-4044	\$89.95	\$80.95	\$71.95

Heavy Duty 15A Extension Leads

Proper heavy duty mains extensions leads with 15A plugs and sockets, and a thick orange flexible cord. The 15A socket end also features an internal LED to indicate that power is present.

- Perfect for caravans and motorhomes



	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	PS-4182	\$29.95	\$26.95	\$23.95
20m	PS-4186	\$49.95	\$44.90	\$39.90

OUTDOOR HARDWARE

Mains Plug and Socket Protector - IP44

There are often instances where you have no choice but to connect mains appliances out in poor weather. Sure, your appliance might be weatherproof, but you need to protect the mains plug and socket from the weather too. This brilliant enclosure safely encapsulates a mains plug and socket connection (say from an extension lead to a mains powered appliance), to ensure no water gets into the connection. It not only stops a short circuit that will trigger your circuit breaker, it prevents accidental electrocution from water ingress. Of course, in good weather it still prevents accidental disconnection and damage to the mains plug and socket.

- Protects mains plug and socket
- IP44 waterproof rating
- Heavy duty



SPECIFICATIONS	HB-6172
Suitable Cable	6.5mm - 9.0mm Diameter
Dimensions	251(W) x 76(H) x 85(D)mm, 165g



	Cat.	Qty 1+	Qty 4+	Qty 10+
IP44	HB-6172	\$9.95	\$8.95	\$7.95

Weatherproof Outdoor Powerboard Enclosure - IP54

This fantastic enclosure takes your average mains powerboard and turns it into a safe, IP54 rated weatherproof power distribution system! It features a heavy duty lockable latch to keep things closed, with an o-ring seal to keep the water out. The cavity inside is around 295(W) x 180(L) x 100(D)mm, which is enough for most 4-way powerboards, and will house plugpacks for Christmas lights and garden ornaments with ease. A 5-way cable grommet is built-in (1 for powerboard, 4 for the items connected to the powerboard). Comes with optional drill holes for M20 or M25 cable glands.

- IP54 weatherproof rating
- Wall mountable
- Lockable



SPECIFICATIONS	HB-6173
Weatherproof Rating	IP54
Suitable Cable	6.9mm - 10.5mm diameter
Dimensions	330(W) x 125(H) x 210(D)mm, 915g



	Cat.	Qty 1+	Qty 4+	Qty 10+
IP54	HB-6173	\$29.95	\$26.95	\$23.95

Weatherproof (IP55) Caravan Power Adaptor with RCD

Allows you to connect your caravan/RV into a normal domestic power outlet. Weatherproof rated to IP55 it is safe to leave outside, and with a residual current device (RCD) safety switch, this product gives you the ability to safely and legally connect your caravan 15A power lead to a normal 10A power outlet. Also includes a 10A circuit breaker in case you accidentally overload the device. A must have for any caravan or RV.

- Fully certified for electrical safety (AS/NZS 3190) and compliant to Australia Standards for caravan wiring (AS/NZS 3001).



	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS-4048	\$119.00	\$106.95	\$94.95

Portable RCD with 4 x 15A Sockets to 15A Mains Plug

Unlike conventional 10A units, you can draw a maximum 3600W from this one. It's made in a power block configuration, which includes a carry handle, and a pedestal base to keep all the plugs off the ground. It features a high power 15A Australian approved plug, and 30mA max RCBO protection. The 4 x outlets are 15A sockets, not 10A sockets.

- IP33 Dust/water ingress protection
- 30mA RCBO
- 15A Plug
- 3600W rated



SPECIFICATIONS	MS-4047
Input	1 x 15A Mains Plug
Output	4 x 15A Mains Sockets (3600W total combined output)
Weight	1kg
Dimensions	180(H) x 170(W) x 140(D)mm
Cable Length	1.8m



	Cat.	Qty 1+	Qty 4+	Qty 10+
4x15A	MS-4047	\$129.00	\$115.95	\$102.95

2 Outlet 10A Power Garden Stake - IP44

Get the right powerboard for the job! This is a versatile and safe way to distribute power in your garden. It features two mains outlets, which have integrated spring-loaded covers. A hood further protects from water. A long spike makes it easy to push into the ground, while a handle on the top allows easy removal.

- IP44 water resistant
- Spring loaded socket covers
- Carry handle



SPECIFICATIONS	MS-4097
Max Rating	240VAC @ 10A / 2400W
Cable Length	1.8m
Water Resistant Rating	IP44
Weight	423g
Dimensions	147(W) x 395(H) x 70(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
IP44 2 Way	MS-4097	\$19.95	\$17.95	\$15.95

Heavy Duty 4 Outlet 10A Power Block - IP44

This is a versatile and weather resistant 4-way powerboard. An integrated stand keeps everything off the ground, while the combination of spring-loaded covers and a built-in hood help keep any water away from the mains outlets. The integrated overload protection and smart design also increases the safety of outdoor power.

- Spring loaded outlet covers
- IP44 water resistant
- Integrated overload protection



SPECIFICATIONS	MS-4086
Max Power Rating	240VAC @ 10A / 2400W
Water Resistant Rating	IP44
Cable Length	1.8m
Weight	1.2kg
Dimensions	185(W) x 264(H) x 183(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
IP44 4 Way 10A	MS-4086	\$29.95	\$26.95	\$23.95

POWERBOARDS

4 & 6 Way Powerboards

These powerboards will allow 4 or 6 appliances to be plugged in at once to a single power point.



- Maximum load is 2400 watts
- Includes a safety overload with reset switch
- White in colour
- Cord length 1.2 metre
- Power LED indicator

SAA approved

POWERTECH

4 or 6 way available



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	1.2m	MS-4040	\$9.95	\$8.95	\$7.95
6 Way	1.2m	MS-4045	\$11.95	\$10.75	\$9.55

Powerboards - Surge & Overload Protection

These powerboards offer a choice of 4 or 6 outlets, all surge protected. Guard your expensive Hi-Fi, TV, or VCR etc. against damage.



POWERTECH

SPECIFICATIONS	BOTH MODELS	
Surge Protection	Metal Oxide Varistors	• Surge and spike protected mains outlets
Supply Voltage	230-240VAC	• 10 Amp resettable overload circuit breaker
Current rating	10A max	• Cable length: 1 metre
Energy Absorption	230 Joules	• Colour: White
		SAA approved

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	1m	MS-4051	\$11.95	\$10.75	\$9.55
6 Way	1m	MS-4055	\$14.95	\$13.35	\$12.70

See page 19 for Outdoor Powerboards



4 Way Powerboard - Filter / Surge & Overload Protection

This powerboard offers 4 outlets, all filtered and surge protected. Guard your expensive Hi-Fi, TV, or VCR etc. against damage.



SAA approved

SPECIFICATIONS	MS-4057	
Surge Protection	Metal oxide varistors	• 4 Surge and spike protected mains outlets
Supply Voltage	230-240VAC	• 10 amp resettable overload circuit breaker
Current Rating	10A max	• Power on indicator in switch
Protection Mode	Active - Neutral	• Cable length: 1 metre
Max Surge Current	6000A	
Typical Capacitance	430pF	
Clamping Voltage	<775 @ 50A	
Energy Absorption	175 joules	
Approvals Number	N17298	

POWERTECH



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	Black 1m	MS-4057	\$19.95	\$17.95	\$15.95

4 Way Powerboard with 3 Metre Lead

Compact with a 3m lead, and master switch for safe connections.

- Surge and overload protection
- Master switch



SAA approved

SPECIFICATIONS	MS-4053
Surge Protection	175 Joules
Supply Voltage	240VAC/ 50Hz
Current Rating	10Amps
Power	2400W (Max)
Lead length	3m
Cable	1.0mm

NEW 2017



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	3m	MS-4053	\$19.95	\$17.95	\$15.95

Powerboards with Surge Overload Protection

Individual switches provide safety for connecting and disconnecting your appliances, while overload and surge protection ensure they're running safely. Surge protection is a must for expensive or sensitive equipment such as TVs, computers, Hi-Fi equipment and more. 45mm spaced sockets to suit leads and slimline plugpacks.

NEW 2017

Individually Switched



MS-4063

SAA approved

SPECIFICATIONS	BOTH MODELS	MS-4061
Surge Protection	Metal Oxide Varistor	
Supply Voltage	240VAC / 50Hz	
Maximum Current	10A	
Surge Current	4500A	
Power Rating	2400 Watts Max	
Typical Capacitance	430pF	
Clamping Voltage	175J	
Response Time	< 20ns	
Dimensions (excluding switches)	235(W) x 85(H) x 30(D)mm (MS-4061) 330(W) x 75(H) x 30(D)mm (MS-4063)	



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	1m	MS-4061	\$29.95	\$26.95	\$23.95
6 Way	1m	MS-4063	\$34.95	\$30.95	\$27.95

4 Outlet Power Block with Securing Loops & USB

The unique securing loops ensure that you do not accidentally pull the plugs out from the sockets. Simply loop the cables through the fasteners to keep them in place. Also included is a 1A USB charging socket.

- 240VAC at 10A max
- USB Outlet: 5VDC at 1A
- Dust cover for USB socket
- Dimensions: 125(H) x 90(H) x 72(D)mm



SAA approved

NEW LOW PRICE



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	10A	MS-4083	\$34.95	\$30.95	\$27.95

See page 19 for Weatherproof Boxes to suit

4 Way Mains Powerboard with 2 x USB and Surge Protection

This 4 way powerboard includes 2 rapid charge USB sockets suitable for charging most smart devices and has filters for protection of mains products. Ideal for protecting your computer from spikes and surges.

- 4 surge and spike protected mains outlets
- 2 rapid charge USB sockets 3.1A total
- 10 amp resettable overload circuit breaker
- Cable length: 1 metre



SAA approved

SPECIFICATIONS	MS-4100
Surge Protection	Metal oxide varistors
Supply Voltage	240VAC 50Hz



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	1m	MS-4100	\$34.95	\$30.95	\$27.95

POWERBOARDS (CONTINUED)

6 Way Mains Powerboard with 2 x Telephone Surge Protection

This 6 way powerboard has filters for protection of mains and telephone products: phones, modems, answering machines, cordless telephones, faxes. Ideal for protecting your computer and phone line from spikes and surges.

- 6 surge and spike protected mains outlets
- Telephone / data line surge & spike protection RJ45 sockets (RJ12 reducer included)
- 10 amp resettable overload circuit breaker
- Cable length: 1 metre



SPECIFICATIONS MS-4102				
Surge Protection	Metal oxide varistors	Max Surge Current	6,000A	1 YEAR WARRANTY
Supply Voltage	240VAC 50Hz			
Current Rating	10A max	Energy Absorption	175 joules	
Protection Mode	PN	Response Time	< 20 nanoseconds	

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	6 Way 1m	MS-4102	\$29.95	\$26.95	\$23.70

SHOW US YOUR BUILD COMPETITION

Mathew, who shops at our Jaycar Smithfield store built:



Hey guys, here's my recent DIY bench power supply build I completed. Main power supply is out of an old amplifier and auxiliary power supply from a HP docking station. The whole project was a combination of different parts and a lot of these parts were purchased from Jaycar!

10 Way Home Theatre Surge Protected Powerboard

This is the perfect addition to your home theatre, music gear or home office setup. This powerboard features 10 surge and spike protected sockets, including 2 wide sockets for large power adaptors. It also includes 2 USB ports for charging Smartphones and Tablets. Surge protection and EMI/RFI filtering protect against mains power fluctuations, with each socket protected three ways: active, neutral and earth. Additional protection is provided by the built-in circuit breaker. This powerboard also has data protection (for a network connection), satellite/cable TV video protection, and protection for your TV antenna.



- Separate Data Line & TV Antenna/Cable TV protection
- 144,000A surge protection
- 2 USB charging sockets & 2 extra wide sockets
- Dimensions: 360(L) x 125(W) x 32(H)mm

SAA approved

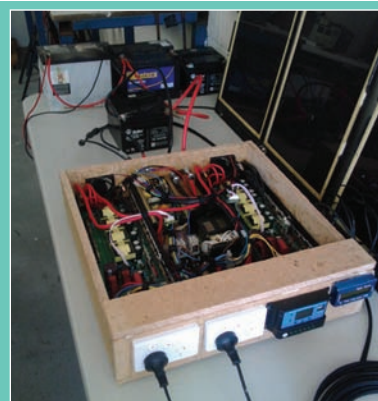
Power Filter MS-4033		Data Line MS-4033	
Surge Protection	Metal Oxide Varistors	Filter Type	Gas Tube Arrestor
Supply Voltage	250VAC	Surge Current	1200A (1kV/μs)
Current Rating	10A max. 2500W	Impulse Discharge Current	10kA (8/20μs)
Protection Mode	A-N, N-E, E-A	Capacitance	<5pF
Max Surge Current	144,000A	Clamping Voltage	600V
Typical Capacitance	400pF	TV Surge Protection	Gas Tube Arrestor
Clamping Voltage (@50A)	<775V	DC Strike Voltage	230V to max. 600V
Energy Absorption	4300 joules	Surge Current	4500A
Response Time	<2ns	Energy Dissipation	225 joules
Filtration	EMI/RFI	Response Time	<10ns

▲		Cat.	Qty 1+	Qty 4+	Qty 10+	
	10 Way	1.8m	MS-4033	\$79.95	\$71.95	\$63.95

SHOW US YOUR BUILD COMPETITION

Jeremy, who shops at our Jaycar online store built:

This is my power transfer switch. 6000 Watts of power. Marine applications.



RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'. Conditions apply - see page 528 for details.

GIFT CARD

Can't find what to buy? Give a Jaycar Gift card and let them choose!



RELATED PRODUCTS

FROM **\$7.95**
PS-4122

WHITE EXTENSION LEADS P18

FROM **\$8.95**
PS-4152

BLACK EXTENSION LEADS P18

FROM **\$15.95**
HP-1226

CABLE DUCTING P166

FROM **\$29.95**
HB-6173

WEATHERPROOF BOXES P19

MAINS DOUBLE ADAPTORS

Mains Double Adaptors

- 240V Double Adaptors
- Standard, right & left types



▲	Approval Number	Cat.	Qty 1+	Qty 4+	Qty 10+	
	Standard	N14532	PP-4032	\$2.75	\$2.45	\$2.25
	Right Hand	NSW22165	PP-4035	\$3.50	\$3.15	\$2.80
	Left Hand	NSW22165	PP-4036	\$3.50	\$3.15	\$2.80

Mains Surge Protector

Each model has protection across active-neutral and active-earth and is fully approved for electrical safety. Providing adequate protection against most surges in mains voltages, they can save you many times the cost of these units in repairs or insurance claims.

Product may vary from the one shown

SPECIFICATIONS	MS-4015				
Load rating	240VAC 50Hz 10A				
Energy absorption	175J				
Surge current	6000A				
▲	Double Power Point	Cat. MS-4015	Qty 1+ \$9.95	Qty 4+ \$8.95	Qty 10+ \$7.95

2 USB Outlet 3.1A Charger with Mains Power Outlet

Provides up to 3.1A charging shared between two USB outlets, with a pass through mains socket allowing you to connect an additional main powered device!

SPECIFICATIONS	MS-4007				
Rating	230-240VAC, 50Hz				
Current	10A Max, 2400W				
USB Outlet	5VDC 3.1A				
Dimensions	44(W) x 93(H) x 55(D)mm				
▲	Single + 2 USB	Cat. MS-4007	Qty 1+ \$18.95	Qty 4+ \$16.95	Qty 10+ \$14.95

IN A HURRY? CLICK TO COLLECT!

Buy online, collect in-store!

To check if your local store offers "Click & Collect" visit: www.jaycar.com.au/store-finder



NIGHT LIGHTS

LED Night Light with Sensor

No need to trip over the cat or stub your toe when you need to get up in the middle of the night. Keep one of these plugged in and it will give you enough light to see where you're going. Being LED, it uses very little power, so you can leave it on permanently. The built-in sensor turns the light off whenever the room lights are switched on.

- Ideal for kids room, hallways and closets
- Rotates through 360° to light any direction
- No batteries required
- Durable construction
- Unobtrusive size - smaller than a double adaptor
- Dimensions: 50(Dia) x 50(H)mm



For small cupboard/wardrobe night lights see page 491

▲	240VAC	Cat. ST-3181	Qty 1+ \$7.95	Qty 3+ \$7.15	Qty 6+ \$6.35
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Double Adaptor with 2 x USB Ports 2.4A

Make better use of a single mains power point. This unit will provide you with two GPO sockets, and two USB charging ports. Total USB power is up to 2.4A (at 5VDC), to charge your iPad® and other power-hungry devices. It hangs to the left, so you can leave the other socket on a dual power point unobscured too. Also features built-in surge protection to keep your equipment safe.

- Two USB Ports, Max 2.4A Total
- 2 x GPO Mains Outlets
- Ergonomic Left-Hanging Design

SPECIFICATIONS	MS-4084				
Surge Protection	175J / 6000 Amps Peak Current				
Max Mains Power	10A @ 240VAC (2400W)				
Max USB Power	2.4A Combined @ 5VDC				
Dimensions	114(W) x 74(H) x 36(D)mm (excludes mains pins)				
▲	Double + 2 USB	Cat. MS-4084	Qty 1+ \$24.95	Qty 4+ \$22.45	Qty 10+ \$19.95

Clip Over Wall Plate with 2 USB Ports

A detachable wall plate adaptor that can be easily fixed to an existing power outlet without opening and rewiring which adds 2 x USB ports. The 2 x USB outlets can charge and power your USB devices up to 3.1A in total. Using these two USB ports, you can turn any wall outlet into a mobile device charging station. This smart unit is embedded with surge protection, switchable light sensor night light and emergency light. It suits widely used wallplates such as Clipsal, HPM, etc. Perfect for the kitchen, bathroom, or garage.

- 2 x USB outlets
- 2 x Mains power outlets
- Emergency light in white light
- Light control night light in blue light

See page 26 for our USB GPO

SPECIFICATIONS	MS-4009				
Voltage	230-240V				
Frequency	50/60Hz				
Current	10A (Max.)				
Power Rating	2400 Watt (max.)				
Protection Mode	Fuse & MOV Protected				
USB Outlets	5V, 3.1A (total)				
Dimensions	134(L) x 95(W) x 38(D)mm (excluding pins)				
▲	Double + 2 USB	Cat. MS-4009	Qty 1+ \$39.95	Qty 4+ \$35.90	Qty 10+ \$31.90

2 Outlet Workstation Centre with USB 1A Socket

This innovative power adaptor fits into a standard 60mm desk grommet allowing the power cord to be discreetly run through the hole without cluttering your desk. It features 2 surge protected mains power sockets and 1 USB port for power. Installation takes just seconds with no tools required.

- Max Current: 10A
- Surge Protected to 175 joules
- USB Socket: 5V at 1A
- Power Cord Length: 900mm SAA approved

▲	Double + 1 USB	Cat. MS-4082	Qty 1+ \$24.95	Qty 4+ \$22.45	Qty 10+ \$19.95
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Mains Night Light with Torch

A beautifully designed night light that plugs into a power point and will automatically illuminate a dark hallway, stairway or any room when motion is detected. It has a built-in low light sensor so that it is only activated at night or during low light conditions. The torch sits in an induction charge base and can be easily removed for use during power outages.

SPECIFICATIONS	ST-3146				
Power	110-240VAC				
Built-in battery	2 x 2450 3.7V 120mAh Li-ion				
15 x LED Night Light / 5 x LED Torch					
Charging time	8 hours				
Burn time	15LED: >1h / 5LED: >5h				
Sensor distance/angle	2-3m / 60°				
Dimensions	170(H) x 75(D) x 54(W)mm				
▲	240VAC	Cat. ST-3146	Qty 1+ \$24.95	Qty 3+ \$22.35	Qty 6+ \$19.95

MAINS OUTLET CONTROL

Wi-Fi Controlled Smart Mains Socket

Have control over your electronic devices inside your home or office from anywhere! From lights to heater, from stereos to grooming devices, you can turn your plugged devices on or off from your Smartphone remotely. This Wi-Fi Controlled Mains Power Socket connects to your home Wi-Fi network, and to any internet enabled Smartphone. The APP gives you control over your devices, including a timer. MS-6124 contains power monitoring ability to the connected device as well as the common features shared between the two models.

- Remote control - Turn on/off your appliances from anywhere.
- Countdown Timer - Never over charge your electronics again.
- Anti-theft Timer - Pretend you are home and guard your house.
- Schedule Timer - Perform routine operations automatically.
- App available for both Android® and Apple® devices

Features MS-6124 only

- Power meter - Demonstrates power trend in different cycles.



MS-6122

SPECIFICATIONS BOTH MODELS

Input	230V - 10A, 50Hz
Output	230V-10A max
Dimensions	125(L) x 70(W) x 50(D)mm



Wi-Fi Enabled



	Cat.	Qty 1+	Qty 4+	Qty 10+
Wi-Fi Socket	MS-6122	\$59.95	\$53.95	\$47.90
Wi-Fi Socket with Power Meter	MS-6124	\$64.95	\$58.50	\$51.95

240V Mains Wi-Fi Wireless Switch Module with APP

Designed to transform your traditional one way mains power point into a modern Wi-Fi switch so you can control connect devices via your Smartphone, from anywhere. It features a schedule timer to automatically turn devices on and off, and a countdown timer to turn devices off after a pre-set time period. The App for this unit can be freely downloaded from Google® Play and App. Store.

System requirements:

- Wi-Fi router
- iPhone®, iPad®, or iPod® (iOS® 6.0 or higher)
- Android® devices with Android® 4.0 or higher



SPECIFICATIONS MS-6126

Electrical rating	120V/15A/60Hz/1800W
Wi-Fi	2.4GHz 802.11b/g/n
Dimensions	53(W) x 50(L) x 16(D)mm



Wi-Fi Enabled



	Cat.	Qty 1+	Qty 4+	Qty 10+
15A 240VAC	MS-6126	\$49.95	\$44.90	\$39.90

Remote Controlled Mains Outlet Controller

The ultimate in convenience - turn any standard mains outlet on and off via remote! Great for switching off hard-to-reach power points too. The remote has a range of up to 30m.

- Wireless On/Off functionality



SPECIFICATIONS BOTH MODELS

Power Supply	240VAC, 50Hz
Total Loading	10A, 2400W M.40
Radio Frequency	433.92MHz
Range	Typically about 30m in open area.
Battery	2pc AAA 1.5V
Adaptor Dimensions	95(L) x 52(W) x 60(D)mm
Remote Control Dimensions	115(L) x 40(W) x 20(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
1 Outlet + Remote	MS-6148	\$19.95	\$17.95	\$15.95
3 Outlets + Remote	MS-6147	\$39.95	\$35.95	\$31.95
Spare Outlet	MS-6149	\$12.95	\$11.65	\$10.35

24 Hour Mechanical Timer A-N Switch

Simple and effective for automatically switching your appliances on and off at particular times. Setup takes mere seconds, then set and forget. Works in 15min increments. It also includes an override switch so you can instantly engage power when required.

- Simple setup
- Override switch



NEW
2017

SPECIFICATIONS MS-6113

Resolution	15min increments
Time Duration	24hrs
Max Load	10A @ 240V (2400W)
Dimensions	125(H) x 70(W) x 52(D)mm (excluding mains pins)
Weight	135g



	Cat.	Qty 1+	Qty 4+	Qty 10+
10A 240VAC	MS-6113	\$9.95	\$8.95	\$7.95

Mains Timer with LCD Display

More advanced than a mechanical timer. You can set it for time of day and also day of the week. The integrated LCD shows current status and guides you through setup. There's also an override on/off/auto selection. If the power goes out, an internal backup battery will retain your settings and accurate time for several days (though obviously won't provide power to your appliance while power is not available). Also includes random mode to switch on lamps or radios to give the impression you're home, while away on holidays.

- Detailed LCD for information
- Override selections
- Random mode
- Time of day and day of week selections



NEW
2017

SPECIFICATIONS MS-6114

Resolution	1min Increments
Accuracy	1min / Month
Time Duration	24hrs / 7 Days
Operation	Manual / Automatic / Random
Max Load	10A @ 240V (2400W)
Dimensions	125(H) x 58(W) x 52(D)mm (excluding mains pins), 135g



	Cat.	Qty 1+	Qty 4+	Qty 10+
10A 240VAC	MS-6114	\$19.95	\$17.95	\$15.95

Digital Mains Timer Switch Modules

Ideal for automating your heating & lighting or practically any other switching application that requires multiple unattended switching cycles. The timer has eight on/off settings that can be programmed to function on any day, or combinations of days across the week. Each of the on/off settings can be set independently. Each On/Off setting can be associated with a range of days from a single day to every day, thus giving 56 possible on/off cycles per week.

- 12VDC supply voltage
- Switching capacity: 16A @ 240VAC



	Cat.	Qty 1+	Qty 4+	Qty 10+
16A 12VDC	AA-0361	\$59.95	\$53.95	\$47.90

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'. Conditions apply - see page 528 for details.

ADDICTED TO SOCIAL? WE'RE HERE TO CHAT - WHATEVER YOUR CHANNEL!



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instagram.com/jaycar_electronics



youtube.com/user/JaycarVideo



twitter.com/jaycarau

CIRCUIT TESTERS & MONITORS

Inline RCD Circuit Breaker

A vital safety device for anyone that works with electric power tools. It can also be a lifesaver when used with electric grass cutters, electric pumps, rice cookers, water heaters, induction cookers and hair dryers. As this unit is pre-wired with an AS/NZS rated mains plug and socket, no license is required to install it!

SPECIFICATIONS	QP-2002
Rated Voltage	240VAC
Rated Current	10A
Trip Current	30mA
Protection Class	IP65



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2002	\$34.95	\$30.95	\$27.95

Power Point & Earth Leakage Tester

A professional socket tester with modern, ergonomic and durable design, to test the safety of installed mains socket. Also checks 30mA RCDs, a unique soft-touch button tests that an RCD in the circuit trips within 300ms when a nominal 30mA earth fault current is applied; a further button, the earth volts touchpad, detects raised earth voltages above 50VAC, thus indicating potentially dangerous installations. Three vivid bicolour LEDs and a buzzer provide a quick-to-check combination of signals which indicate correct wiring, missing earth, live/neutral reverse, earth/live reverse, missing neutral, live faults, and those errors detected by the two pushbutton tests.



Rear shot



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2004	\$34.95	\$31.45	\$27.95

Single RCD (Safety Switch) Outlet

RCDs (residual current devices), also commonly called safety switches, are designed to cut the power in a fraction of a second in the event of a fault condition, thereby preventing electrocution. The electrics in your house may be too old to have RCDs installed, or you might want to use a power tool outdoors on an outlet that doesn't have an RCD fitted - use this handy portable one instead. Buy one right now if you don't have RCDs already.

Note: RCDs are not a substitute for common sense around mains electricity. While they will work in most situations, they may not in some cases and are not a substitute for current overload devices such as fuses and circuit breakers. Wiring, appliances, leads and power outlets must always be maintained in a safe condition.

- Test function
- Reset button



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	10A 240VAC MS-4013	\$27.95	\$24.95	\$22.35

Mains Power Meter

This intelligent power meter simply plugs into a normal power point (GPO) and turns it into a real-time power monitoring outlet. You can enter the local price of your electricity and the meter will tell you exactly how much the appliance is costing to run. In addition, the power meter tracks the power used and can display the instantaneous voltage or current being drawn as well as the peak levels that have been drawn. The meter has backup batteries so it will not lose the stored data during a blackout or moving from point to point.

- Simple to install and a valuable tool for monitoring your power consumption



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS-6115	\$21.95	\$19.70	\$17.35

TRAVEL ADAPTORS - INBOUND

For use in Australia or New Zealand.

Earthed Mains Adaptor

This universal adaptor converts 3 pin plugs from USA or UK to match 3 pin outlets in Australian and New Zealand. Also compatible with the unearthed 2 pin Europeplug common throughout Europe.

SAA approved



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4027	\$9.95	\$8.75	\$7.75

Europe/USA/Japan

For use by visitors from all over the world (except South Africa & India).

SAA approved



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4020	\$12.95	\$11.35	\$10.35

USA & Europe

Accepts overseas 2 and 3 pin plugs and adapts to Australia and New Zealand. For use with electrical appliances from Europe, USA, and some Asian and South American countries.

- Does not convert voltage.
- Approval Number NSW21745
- 54 x 54 x 37mm

SAA approved



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4050	\$9.95	\$8.75	\$7.75

Europe and USA with USB

Suitable for plugging overseas appliances from Europe, Bali, USA and Japan into Australia/New Zealand power sockets. Also provides a USB charging port with 1A current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors.

Note: Does not convert voltage, suitable for 240V 50Hz mains.

SAA approved



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4043	\$19.95	\$17.95	\$15.95

Universal Travel Adaptor With USB

Suitable for plugging overseas appliances into Australia/New Zealand power sockets. Also provides a USB charging port with 2.1A current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors.

Note: Does not convert voltage.

- Suitable for 240V 50Hz mains.

SAA approved



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4040	\$19.95	\$17.95	\$15.95

WARNING!
These adaptors do not convert voltage. Item being connected must be suitable for 220-240VAC

For Stepdown Transformers see page 17

TRAVEL ADAPTORS - OUTBOUND

Mains Adaptor Unearthed for USA or Japan

This travel adaptor is designed for use on 2 pin Australian appliances while travelling in Japan or the USA.

Only suitable for items without an earth pin such as most mobile phone chargers and laptop power supplies.

SAA approved



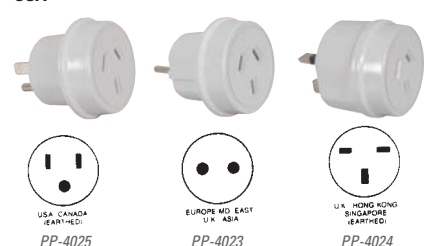
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4026	\$9.95	\$8.75	\$7.75

Mains Adaptors for Australia & NZ Going Overseas

They DO NOT convert voltage, but allow you to plug into various types of wall outlets around the world.

SAA approved

USA EUROPE GREAT BRITAIN



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4025	\$9.95	\$8.75	\$7.75
	PP-4023	\$9.95	\$8.75	\$7.75
	PP-4024	\$9.95	\$8.75	\$7.75

India/South Africa Mains Travel Adaptor

Electrical appliance adaptors for Australians travelling overseas to India or South Africa.

Note: DOES NOT convert voltage.

SAA approved



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4028	\$9.95	\$8.75	\$7.75

WARNING!

We strongly recommended that you exercise extreme caution if buying 240V mains accessories from so-called "S2 shops". There have been stories in the News recently where people have been electrocuted from products purchased at these establishments. It appears that they are imported from overseas (usually China) and are not subjected to a rigorous inspection/approval process before being offered for sale.

The 240V products offered from us are all electrically tested and approved where appropriate. Why risk the lives of yourself and loved ones by using potentially dangerous goods which are not that much cheaper than products from reputable suppliers?

TECH TALK

TRAVEL ADAPTORS (CONTINUED)

TRAVEL ADAPTORS			SELECTION GUIDE	
Country	Australian to (Outbound)	Includes USB Charger	To (Inbound) Australian	Includes USB Charger
Europe	PP-4042	Yes	PP-4050 PP-4043	No Yes
	PP-4023	No		
	PP-4047	Yes(4)		
	PP-4029	No		
Great Britain	PP-4044	Yes	PP-4027 PP-4040	No Yes
	PP-4024	No		
	PP-4049	Yes(4)		
	PP-4029	No		
Hong Kong	PP-4044	Yes	PP-4027 PP-4040	No Yes
	PP-4049	Yes(4)		
India	PP-4028	No		
	PP-4041	Yes		
Japan	PP-4026	No	PP-4020	No
			PP-4050	No
			PP-4043	Yes
			PP-4040	Yes
Japan 2 Pin	PP-4048	Yes	PP-4020	No
			PP-4050	No
South Africa	PP-4028	No	PP-4053	Yes
	PP-4041	Yes		
USA	PP-4046	Yes	PP-4050 PP-4027 PP-4043 PP-4040	No No Yes Yes
	PP-4025	No		
	PP-4031	No		
	PP-4045	Yes (4)		
	PP-4029	No		
	PP-4026	No		
	PP-4048	Yes		
		Yes		

Outbound Mains Travel Adaptor 3 Pack to Suit USA, Europe and UK Outlets



NEW
2017

Take your Australian & New Zealand mains appliances overseas, and don't pay a fortune for travel adaptors at the airport. This 3-pack includes adaptors for USA, Europe, and UK style mains outlets, and will cover over 150 countries (See website for list).

Note: adaptors do not change voltage. Check your appliance's compatibility with the local voltage before connecting.

▲ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4029	\$24.95	\$22.50	\$19.95

Double Outlet USA Mains Travel Adaptor

Adapts two Australian mains plugs for use overseas in countries that use the USA 3-Pin style outlet.



NEW
2017

▲ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4031	\$16.95	\$15.25	\$13.55

Mains Travel Adaptors With USB Charging Port

Suitable for taking your Australia/New Zealand appliances on your overseas travels. Each provides a USB charging port with 2.1A current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors. 4 versions available to suit most countries.

• NOTE: Does not convert voltage.

Australia to Europe

Suitable for taking your Australia/New Zealand appliances overseas to plug into Europlug power sockets.

SAA approved



▲ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4042	\$17.95	\$15.95	\$14.35

Australia to UK/Hong Kong

Suitable for taking your Australia/New Zealand appliances overseas to plug into UK/Hong Kong power sockets.

SAA approved



▲ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4044	\$17.95	\$15.95	\$14.35

Australia 3 Pin to USA

Suitable for taking your Australia/New Zealand appliances overseas to plug into 3 pin earthed USA power sockets.

SAA approved



▲ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4046	\$17.95	\$15.95	\$14.35

Australia 2 Pin to Japan

Suitable for taking your 2 pin Australia/New Zealand appliances overseas to plug into 2 pin un-earthed Japan/USA power sockets.

SAA approved



▲ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4048	\$17.95	\$15.95	\$14.35

Outbound Mains Travel Adaptor for South Africa and India

Use Australian appliances in South Africa and India. Also provides a USB charging port with 1A current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors.

Note: Does not convert voltage, suitable for 240V 50Hz mains.

SAA approved



▲ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4041	\$19.95	\$17.95	\$15.95

Outbound USA Mains Travel Adaptor with 4 USB Sockets

Will let you use Australian appliances in the USA and Canada. Also provides 4 USB charging ports with total output of 2.1A current to charge your Tablet or Smartphone.

Note: Does not convert voltage, suitable for 240V 50Hz mains.

SAA approved



▲ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4045	\$24.95	\$22.50	\$19.95

Outbound Europe Travel Mains Adaptor with 4 USB Sockets

Will let you use Australian appliances in Europe, Bali and several other regions. Also provides 4 USB charging ports with 2.1A total output current to charge your Tablet or Smartphone, eliminating the need to carry multiple power adaptors.

Note: Does not convert voltage, suitable for 240V 50Hz mains.

SAA approved



▲ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4047	\$24.95	\$22.50	\$19.95

Outbound UK and HK Mains Travel Adaptor with 4 USB Sockets

Suitable for taking your Australia/New Zealand appliances overseas to plug into UK/Hong Kong power sockets. Also provides 4 USB charging ports with 3.15A total output current.

Note: Does not convert voltage, suitable for 240V 50Hz mains.

SAA approved



▲ Cat.	Qty 1+	Qty 4+	Qty 10+
PP-4049	\$24.95	\$22.50	\$19.95

MAINS HARDWARE

Mains Power Switches & GPOs

Tradies pay attention!! Finally, there is a discount alternative to the big brand names! Despite being made in China, this range of general purpose outlets (GPOs) & light switches are all made with the highest quality materials and feature an attractive finish you would be happy to show inside your home. The switches are the same hardwearing long service life type you'll find in the big brand names, and best of all - the price is lower. The savings really start to add up when wiring up the garage or a whole house. They are all fully approved to Australia/New Zealand safety standards, so you don't have to take only our word to ensure quality.

We have a Wall Plate Adaptor that converts a single GPO to a double GPO with two handy USB outlets! See page 22 for details



240VAC Single Architrave Light Switch

Single architrave light switch suited for door frames.

- 10A 2-Way switch
- Narrow profile for architrave mounting
- White colour



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Single Switch	PS-4051	\$3.95	\$3.45	\$3.15

Mains Light Switches

Standard GPO size light switch. 240V 10A rated.

- Safety Approval No. SAA121203EA



▲	Approval	Cat	Qty 1+	Qty 4+	Qty 10+
Single Switch	SAA12103EA	PS-4055	\$4.95	\$4.45	\$3.90
Double Switch	SAA12103EA	PS-4057	\$5.95	\$5.25	\$4.75

General Purpose Outlets - GPOs

These switches are the same hard wearing long service life type you'll find in the big brand names and best of all - the price is lower. The savings really start to add up when wiring up the garage or a whole house. They are all fully approved to Australia/New Zealand safety standards, so you don't have to take only our word to ensure quality.

- Safety Approval No.: ES120046
- Packaged in a handy trade-style polybag

Note: the screws included with these have a slightly different pitch to the standard 3.5 x 0.8mm, but should still fit plasterboard mounting plates etc.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Single GPO	PS-4040	\$4.95	\$4.45	\$3.90
Double GPO	PS-4060	\$6.95	\$6.25	\$5.50
Double GPO with extra switch	PS-4046	\$9.95	\$8.75	\$7.75

Double GPO with 2- Pole Switches for Caravans & Motorhomes

By law, caravans, motorhomes and other recreational vehicles require a GPO with double pole switch that disconnects both the Active and Neutral to reduce the chance of electric shock.

- 240V 10A rated
- Includes mounting screws
- SAA approved



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Double GPO	PS-4069	\$19.95	\$17.70	\$15.70

240V GPO Wall Socket with 4 x USB 3.15A Output

This hardwired USB adaptor will fit into a standard GPO wall plate base and give 4 USB power sockets with a total of 3.1 amps. Use it to power or charge pretty much anything that takes power from a USB socket. Instructions are included, however, all fixed wiring products must be installed by a licensed electrician!



SAA approved



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
4 x USB	PS-4071	\$24.95	\$22.45	\$19.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!



Double GPO with 2 x USB Charging ports

Reduce the amount of USB power supplies that clutter your power outlets. Combining two GPO mains outlets with two 2.1A capable USB outlets, you can charge and power all those USB devices with just the cable! The ports themselves feature spring-loaded dust covers, to keep the contacts clean and free from dust when not in use. The mains (GPO) outlets are standard 240AC 10A outlets. It's a direct replacement for your standard GPO fittings. Features a removable facia plate for no-fuss painting too.

- 2 x 2.1A 5V USB Outlets
- 2 x 10A 240V GPO mains sockets
- Direct replacement for other standard Australian GPO plates
- Electrical safety authority approved

SPECIFICATIONS PS-4065

GPO Max Output	240VAC @ 10A
USB Max Output	5VDC @ 2.1A
Face Plate Depth	17mm (12mm excluding switches)
Recess Depth	23mm
Dimensions	118(W) x 72(H) x 35(D)mm (total)



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
Double GPO + 2 USB	PS-4065	\$29.95	\$26.95	\$23.95

Surface Mount Blocks

Standard mounting blocks for powerpoints and wall switches, or any other standard wallplates.



▲	Depth	Cat.	Qty 1+	Qty 10+	Qty 50+
	16mm	PS-4063	\$4.95	\$4.45	\$3.90
	34mm	PS-4062	\$5.95	\$5.25	\$4.75

Plaster Board Bracket



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3033	\$2.95	\$2.60	\$2.30

Flat GPO Mount Bracket

Mounting bracket for standard wall plate to be mounted on plasterboard.

- Install before plasterboard.



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-4077	\$1.95	\$1.75	\$1.65

Junction Box

Size 70 x 70 x 37(D)mm.



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-4066	\$7.95	\$6.95	\$6.25

240V 32A "BP" Mains Connectors

Available as a pack of 10 standard single screw connectors and 2 double screw. Ideal for safe, reliable earth connections. "BP" style connectors, also known as acorns. (Double screw are for earth).

- 8 single and 2 double per pack



Single

Double

▲	Cat.	Qty 1+	Qty 10+	Qty 50+
Pkt 10	HM-3192	\$9.95	\$8.75	\$7.75

MONTHLY SPECIALS

Look out for our monthly promotions in store now!

MAINS HARDWARE (CONTINUED)

Power Lead 3 Pin

3 Pin 240V AC plug with 2 metres of 3 core cable to bare ends with lug on earth.

- Latest models with insulated pins
- 7.5A.



	Cat.	Qty 1+	Qty 4+	Qty 10+
2m	PS-4110	\$5.95	\$5.25	\$4.75

3 Pin 10A Power Leads to Bare Ends

- 240V AC Plug
- 3 core cable
- 10 rated



Limited Stock

	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4112	\$4.95	\$4.45	\$3.95
5m	PS-4113	\$9.95	\$8.95	\$7.95

240V Line Plug 10A

- Safety clear plastic cover
- Latest models with insulated pins



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-4000	\$3.95	\$3.45	\$3.15

Side Entry 10A Line Plug 240V

- Latest models with insulated pins



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-4001	\$4.95	\$4.45	\$3.95

240V 10A Mains Line Socket

- Safety type.



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-4008	\$7.95	\$6.95	\$6.25

Mains Panel Socket 10A

Flush mounting 3 pin mains socket. Ideal for many situations where the socket cannot protrude far from its mounting bracket.



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-4094	\$7.95	\$6.95	\$6.25

Mains Surface Socket - 10A

3 pin mains socket, where there is plenty of external room. No need to cut large hole in panel - only for wiring.



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-4092	\$7.95	\$6.95	\$6.25

240V Cordline Switch

Inline cord switch for 2 and 3 core cable up to 10 amps. Switches both neutral and active wires.

- Suitable for AC mains only.



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-4075	\$19.95	\$17.95	\$15.95

Mains Panel Sockets with Cover

Mains panel socket - spring loaded cover

- Approval no: ES0140170

10A 250VAC

• 50(H) x 50(W) x 27.6(D)mm
PS-4095

15A 250VAC

• 62(H) x 50(W) x 27.7(D)mm
PS-4097



	Cat.	Qty 1+	Qty 10+	Qty 50+
10A	PS-4095	\$6.95	\$6.25	\$5.55
15A	PS-4097	\$6.95	\$6.25	\$5.55

AUTOMATIC ACCOUNT

For Government Departments,
Schools, Public Companies,
Radio & TV Stations

240V Line Mains Power Plug 15A

Flexible 15A plug (larger Earth pin) with clear body for easy visual check on proper connections. Features an external cord grip and suction boot to prevent ingress into screw terminals and connections.



SPECIFICATIONS	PP-4006
Rated Voltage	250VAC
Rated Current	15A
Enclosure Colour	Clear
IP Rating	IP20
Terminal Type	Screw
Cable Diameter (Max.)	10mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
15A Plug	PP-4006	\$4.95	\$4.45	\$3.95

240V Mains Line Power Socket 15A

Clear extension 15A socket with a flexible PVC cover giving complete visibility to screw terminals. Features a cord locking nut and screwed clamp terminals. Useful for 3 core 1.5mm square millimetre ordinary and heavy duty flexible cords.



SPECIFICATIONS	PS-4004
Rated Current	15A
Rated Voltage	250VAC
IP Rating	IP20
Terminal Type	Screw
Enclosure Colour	Clear
Cable Diameter (Max.)	10mm



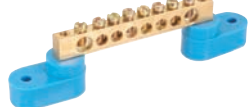
	Cat.	Qty 1+	Qty 4+	Qty 10+
15A Socket	PS-4004	\$8.95	\$8.05	\$7.15

BUS BARS

Machined Brass Bus Bar - 8 Way

These are usually used to give an electrically common point for earth wiring but are also useful for low voltage tie points, especially on boats or RV's, Caravans etc., 6 holes accept up to a 4.5mm wire bundle and the outer 2 a 6.0 bundle. The Bus bar has insulated standoffs at each end which can be removed so that the assembly can be screwed directly to a chassis. The standoffs have a conservative insulation rating of 1000V.

- All screws M4.0 Brass bar 9.0 x 6.0
- Length overall including standoffs: 100mm, without standoffs: 65mm.



**DO NOT USE
EITHER SZ-2003 OR
SZ-2012 FOR 240V**

	Cat.	Qty 1+	Qty 4+	Qty 10+
	SZ-2003	\$6.95	\$6.25	\$5.50

150A Insulated Bus Bar

This quality bus bar features a raised insulating base that isolates the bus bar from earthed or other live chassis. It features 2 x 5mm bolted terminals for connecting main power feeds, and 10 screw terminals for connecting lower current feeds of up to 10A each. Total current capacity is 150A, and is suitable for 12-32V wiring. 2 countersunk screw holes for 5mm metric fasteners.

- Not suitable for 240V active circuit
- Dimensions: 145(L) x 30(W) x 40(H)mm

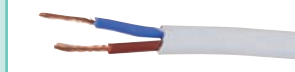


**DO NOT USE
EITHER SZ-2003 OR
SZ-2012 FOR 240V**

	Cat.	Qty 1+	Qty 4+	Qty 10+
	SZ-2012	\$16.95	\$15.25	\$13.55

RELATED PRODUCTS

FROM
\$1.25/m
WB-1560



MAINS CABLE

P162

FROM
\$7.95
WH-5525



HEATSHRINK

P165

FROM
\$4.95 ea
HP-0720



CABLE GLANDS

P167

FROM
\$16.95
NM-2836



LIQUID ELECTRICAL TAPE

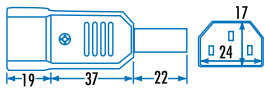
P184

PLUGS & SOCKETS

Line Male

Widely used in personal computers.

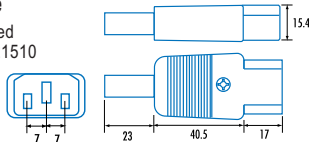
- Safety approved number NSW21518
- IEC320 C14
- 240V



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4007	\$6.95	\$6.25	\$5.50

Line Female

- Safety approved number NSW21510
- IEC320 C13
- 240V



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-4006	\$5.95	\$5.25	\$4.75

High Temperature IEC320 C15 Socket

Intended for service in higher temperature environments up to 120°C at a current rating of 10 Amps. Incorporates a keyway which prevents being used with standard temperature IEC320 C14 connections.

- Electricity Authority Approved (Approval no: NSW21510)

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-4013	\$9.95	\$8.75	\$7.75



IEC320 C13 Right Angle Line Socket

Right angle IEC socket for installations where wall space or rack space is extremely limited. Create much neater connections to your devices.

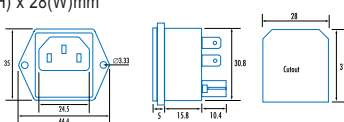
- Strain relief rubber cable entry
- Dimensions: 68(H) x 35(D) x 28(W)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4012	\$7.95	\$6.95	\$6.25

Male Chassis with Fuseholder

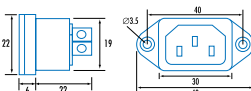
- Size 35(H) x 44(W) mounting holes 36mm apart
- Cutout 31.5(H) x 28(W)mm
- M205 fuse
- IEC320
- 240V



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4004	\$6.95	\$6.25	\$5.50

Male Chassis

- Size 50(W) x 22(H)mm
- Mounting holes 40mm apart
- IEC320
- 240V

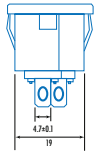
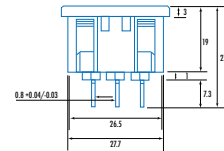
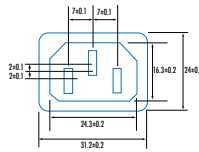


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4005	\$3.95	\$3.45	\$3.15

Snap-In Mains Plug

Panel-mounting IEC mains socket. Unfused and non-switched.

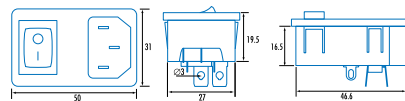
- Panel thickness: 0.8 - 3mm
- Cutout size: 27 x 19mm
- Rated for 250VAC at 10A



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4009	\$4.95	\$4.45	\$3.90

Chassis Male with Switch & Fuse

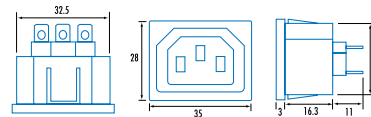
- DPST switch.
- M205 size fuseholder
- Max 10A, 250V
- IEC320



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-4003	\$7.95	\$6.95	\$6.25

Chassis Socket Female

- Simply snaps in
- Rated at 250V 10A
- IEC320



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-4002	\$4.95	\$4.45	\$3.90

Rubber Covers

Slip over the back of the above IEC connectors to cover the mains terminals.

- SMALL: Suits Cat PP-4005 & IEC filters
- LARGE: Suits Cat PS-4002 & PP-4004



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	PM-4015	\$2.75	\$2.45	\$2.30
Large	PM-4016	\$2.95	\$2.60	\$2.45

EMI Power Line Filter - 6 Amp

These Industry standard design RF/EMI filters are designed to reduce line - to - ground (common mode) interference. They accept a standard IEC power line connector and are panel mounted. They meet (or exceed) international standard leakage requirements and are rated for mains voltages of 115 to 250V, 50, 60Hz. Safety & construction are in compliance with UL, CSA, VDE etc.

- Cutout 27 x 21mm
- IEC320



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS-4003	\$9.95	\$8.75	\$7.75

FOREIGN PLUG LEADS

IEC320 Power Mains Leads

To suit 3 different regions/countries. We have had so many enquiries for these products that we now stock the following range which are black in colour and are all earthed.

USA

3 x 18AWG (41 x 34 strands) cable rated at 250/300V @ 10 amps.

- Temperature rated at 60° C and approved to UL817, CSA C.22.3 N.42, JIS C3306, C8303 and NEMA 5-15.

PS-4140



UK

3 x 0.75mm² (24 x 0.21 strands) cable rated at 500V @ 6 amps 250V @ 10 amps.

- Temperature rated at 70° C and approved to UK spec BS 1363-84

PS-4142



EUROPE/GERMANY

3 x 0.75mm² (24x0.21 strands) cable rated at 500V @ 6 amps 250V @ 10 amps.

- Temperature rated at 70° C and approved to CEE (7) & VDE standards.

PS-4144



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4140	\$15.95	\$14.35	\$12.70

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	PS-4142	\$15.95	\$14.35	\$12.70

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	PS-4144	\$15.95	\$14.35	\$12.70

POWER LEADS

2 Pin Power Lead

Black 240V 2 pin power lead as used in many appliances, eg: portable Hi-Fi, shavers etc.

- Universal round IEC C7 connector
- Not earthed
- SAA Approved



SOANAR

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4115	\$5.95	\$5.25	\$4.75
5.0m	PS-4117	\$11.95	\$10.70	\$9.50

Clover Leaf

3 pin clover type to 240V plug

- 1.8 metres long
- Earthed
- SAA Approved



SOANAR

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4120	\$6.95	\$6.25	\$5.50

IEC LEADS

Straight IEC Female to 240V Plug

- 1.8 metres long
- Earthed
- SAA Approved



SOANAR

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4106	\$8.95	\$7.95	\$6.95

Straight IEC Female to 240V Plug - 5m

Extra long mains lead (5 metres) to allow more options with equipment placement or for eliminating an extension lead.



SOANAR

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5.0m	PS-4105	\$13.95	\$12.35	\$10.95

Right Angle IEC Female to 240V Plug

- 1.8 metres long
- Earthed
- SAA Approved



SOANAR

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4107	\$9.95	\$8.75	\$7.75

15A IEC C19 Female to 240V Plug

- 1.8 metres long
- 15A
- SAA Approved



SOANAR

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4124	\$12.95	\$11.35	\$10.35

IEC Male to 3 Pin (GPO) Female

Ideal for connecting a standard powerboard to a UPS etc.

- SAA approved
- 150mm long



SOANAR

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	PS-4100	\$9.95	\$8.75	\$7.75

IEC Female to IEC Male

- 1.8 metres long
- SAA Approved



SOANAR

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	PS-4108	\$8.95	\$7.95	\$6.95

IEC Male to 2 x IEC Female

Splits "switched" outputs - on the back of a PC that powers the monitor. Then turn on another device - like a printer, desk lamp...anything with an IEC male.

- Length 2.0 metres
- SAA Approved



SOANAR

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	PS-4104	\$17.95	\$15.95	\$14.35

240V Male to 2 x IEC Female

- 2.0 metres.
- SAA Approved
- 540mm before join, each output 1550mm long



SOANAR

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	PS-4102	\$16.95	\$14.95	\$13.35

3 Outlet IEC Mains Lead

Ideal for multiple monitors, computers, servers, and so much more. The lead is 1.8m overall, but at the half-way point it splits into three, to provide three IEC power plugs.

Drastically reduces powerboard clutter.

- Rated: 240VAC @ 10A / 2400W Max.

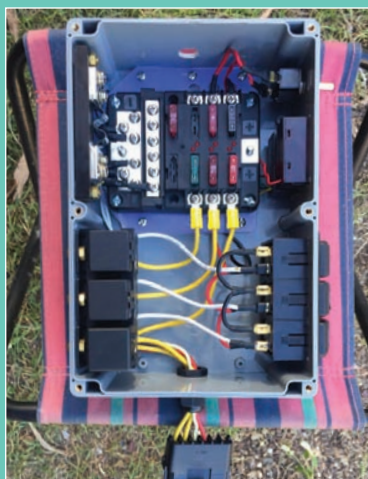


▲ Length	Cat.	Qty 1+	Qty 10+	Qty 20+
1.8m	PS-4103	\$39.95	\$35.95	\$31.95

SHOW US YOUR BUILD COMPETITION

Jamie, who shops at our Jaycar Stockist store built:

12V power box providing power to a built in air compressor, water pump and camp lights with on board volt and amp meter, for the canopy of my ML triton. This enables me to monitor the load on my auxillary battery and provide basic comforts for my partner, my dog and I on our trip around Australia.



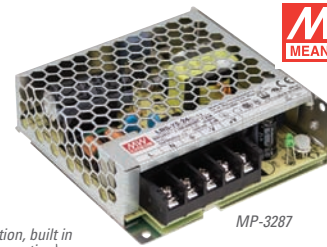
NEW
2017

ENCLOSED INDUSTRIAL STANDARD SWITCHMODE POWER SUPPLIES

A range of highly efficient, fixed voltage, no load low power (<0.2-0.75W) consumption enclosed power supplies for a wide range of industrial applications. They are more compact and more efficient than previous generation models. The 30mm low profile design allows them to be built into 1U rack enclosures, while the metallic mesh case enhances the heat dissipation. They are capable of operating at altitudes up to 5000 metres. Not only do they satisfy every kind of industrial related application but also can be utilised for household appliances thus accounting for a broader coverage across diverse industries. See our website for full datasheets on each model. Backed by 3 year warranty.

- Full range 85-264VAC input
- High efficiency, long life & high reliability
- Extremely low no load power consumption
- Power on LED indicator
- Complies with international safety standards.
- Operates from -30°C to 70°C under air convection without a fan
- Withstand 300VAC surge input for 5 seconds
- 100% full load burn-in test
- Protection: Short, overload & overvoltage
- 5G anti-vibration capability

* MP-3294: Overtemperature protection, built in DC fan, active PFC (Power Factor Correction)



SPECIFICATIONS	MP-3285	MP-3286	MP-3287	MP-3288	MP-3289	MP-3290	MP-3291	MP-3292	MP-3294*
Model No.	LRS-35-12	LRS-35-24	LRS-75-12	LRS-75-24	LRS-75-5	LRS-100-12	LRS-150F-12	LRS-150F-24	RSP-320-12
Output Voltage	12VDC	24VDC	12VDC	24VDC	5VDC	12VDC	12VDC	24VDC	12VDC
Tolerance	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 2.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%
Ripple & Noise	120mV	150mV	120mV	150mV	100mV	120mV	150mV	200mV	150mV
Rated Current	3A	1.5A	6A	3.2A	14A	8.5A	12.5A	6.5A	26.7A
Efficiency	86%	88%	89%	90%	86.50%	88%	87.50%	89%	88%
Input frequency	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Cold Start Inrush Current	45A	45A	50A	50A	50A	50A	60A	60A	40A
Weight	230g	230g	300g	300g	300g	340G	480g	480g	900g
Dimensions L x W x H	98 x 82 x 30mm		99 x 97 x 30mm		129 x 97 x 30mm		159 x 97 x 30mm		215 x 115 x 30mm

▲ Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
35W	12V	3A	MP-3285	\$29.95	\$26.95	\$23.95
35W	24V	1.5A	MP-3286	\$29.95	\$26.95	\$23.95
75W	12V	6A	MP-3287	\$44.95	\$39.95	\$35.95
75W	24V	3.2A	MP-3288	\$44.95	\$39.95	\$35.95
75W	5V	14A	MP-3289	\$44.95	\$39.95	\$35.95

▲ Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
100W	12V	8.5A	MP-3290	\$49.95	\$44.95	\$39.95
150W	12V	12.5A	MP-3291	\$69.95	\$62.95	\$55.95
150W	24V	6.5A	MP-3292	\$69.95	\$62.95	\$55.95
320W	12V	26.7A	MP-3294	\$169.00	\$151.95	\$134.95

Enclosed Power Supplies

A range of mini enclosed switchmode power supplies with single (RS) or dual (RD) outputs.

- Miniature size, non-PFC
- 5G vibration, High operating temperature up to 70°C
- 300VAC input surge
- Suitable for critical applications
- Dual outputs available with the RD series



SINGLE OUTPUT POWER SUPPLIES - RS SERIES

SPECIFICATIONS	MP-3295	MP-3296	MP-3297	MP-3298
Model No.	RS-15-5	RS-15-12	RS-25-12	RS-25-24
Output Voltage	5VDC	12VDC	12VDC	24VDC
Tolerance	+/- 2.0%	+/- 1.0%	+/- 1.0%	+/- 1.0%
Ripple & Noise	80mV	120mV	120mV	120mV
Rated Current	3A	1.3A	2.1A	1.1A
Efficiency	77%	81%	81.50%	86%
Input Frequency	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Cold Start Inrush Current	65A	65A	30A	30A
Weight	130g	130g	200g	200g
Dimensions L x W x H	62.5 x 51 x 28mm		78 x 51 x 28mm	

▲ Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
15W	5V	3A	MP-3295	\$19.95	\$17.95	\$15.95
15W	12V	1.3A	MP-3296	\$19.95	\$17.95	\$15.95
25W	12V	2.1A	MP-3297	\$24.95	\$22.45	\$19.95
25W	24V	1.1A	MP-3298	\$24.95	\$22.45	\$19.95

DUAL OUTPUT POWER SUPPLIES - RD SERIES

SPECIFICATIONS	MP-3299	MP-3300
Model No.	RD-65A	RD-125B
Output Voltage CH1	5VDC	5VDC
Output Current CH1	6.0A	4.6A
Voltage Tolerance CH1	+/- 2.0%	+/- 5.0%
Ripple & Noise CH1	80mV	80mV
Output Voltage CH2	12VDC	24VDC
Output Current CH2	3.0A	4.6A
Voltage Tolerance CH2	+/- 6.0%	+/- 7.0%
Ripple & Noise CH2	120mV	120mV
Efficiency	79%	85%
Input Frequency	47-63Hz	47-63Hz
Cold Start Inrush Current	40A	40A
Weight	440g	700g
Dimensions L x W x H	129 x 98 x 38mm	199 x 98 x 38mm

▲ Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
65W	5V/12V	6A/3A	MP-3299	\$49.95	\$44.95	\$39.95
125W	5V/24V	4.6A/4.6A	MP-3300	\$79.95	\$71.95	\$63.95

MINI Power Supplies

The IRM Series is a miniature encapsulated AC/DC power supply. This on board module features compact size and extremely low (<0.1W) no load power consumption at standby mode. This allows designers to easily conform to the requirements of ErP norm (Energy-related Products) and EISA. The 94V-0 flame retardant plastic case and fully-potted silicone enhance the heat dissipation and meet anti-vibration demand up to 5G. The new series complies with UL/CUL/TUV/CB/CE certificates for safety. Suitable applications include electronic instruments, hand held electronics, factory automation and electrical or mechanical equipment. Our range comes with screw terminals.



- Universal AC input / Full range
- Compact size
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Isolation Class II
- No load power consumption <0.1W
- Pass LPS
- 100% full load burn-on test
- High reliability



SPECIFICATIONS	MP-3301	MP-3302
Model No.	IRM-30-5ST	IRM-30-12ST
Output Voltage	5VDC	12VDC
Tolerance	+/- 2.5%	+/- 2.5%
Ripple & Noise	120mV	150mV
Output Current	6A	2.5A
Efficiency	83%	88%
Input Voltage	85 ~ 264VAC	85 ~ 264VAC
Input Frequency	47-440Hz	47-440Hz
Cold Start Inrush Current	45A	45A
Weight	120g	120g
Dimensions L x W x H	91 x 39.5 x 28.5mm	91 x 39.5 x 28.5mm

▲ Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
30W	5V	6A	MP-3301	\$39.95	\$35.95	\$31.95
30W	12V	2.5A	MP-3302	\$39.95	\$35.95	\$31.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here!
Check our website for over
3,500 pages of data!



DIN RAIL POWER SUPPLIES

45 Watt Industrial DIN Rail Switchmode Power Supplies

These compact and light weight industrial power supplies features full temperature, voltage and current overload protection. They have a built-in EMI filter, a power on LED and operate from 85 ~ 264VAC to provide either 12 Volts DC @ 3.5A or 24 Volts DC @ 2.0Amps. Input and output connections are via a 7.5mm pitch terminal block.

SPECIFICATIONS	MP-3190	MP-3192
Model No.	DR-4512	DR-4524
Input voltage	85-264VAC, 120-370VDC	85-264VAC, 120-370VDC
Input frequency	47-63Hz	47-63Hz
Output voltage	12VDC	24VDC
Line regulation	1% +/-	1% +/-
Ripple & noise	200mV	480mV
Output current	3.5A	2A
Efficiency	77%	80%
Cold start inrush current	56A @ 230VAC	56A @ 230VAC
Dimensions	93x78x67mm	93x78x67mm



▲ Wattage	Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
45W	12V	MP-3190	\$49.95	\$44.95	\$39.95
45W	24V	MP-3192	\$49.95	\$44.95	\$39.95



120 Watt Industrial DIN Rail Switchmode Power Supplies

• Input voltage 110/240VAC (switch)



SPECIFICATION	MP-3195	MP-3196	MP-3197
Model No.	DR-120-12	DR-120-24	DR-120-48
Input frequency	47-63Hz	47-63Hz	47-63Hz
Output voltage	12VDC	24VDC	48VDC
Line regulation	2% +/-	1% +/-	1% +/-
Ripple & noise	80mV	80mV	100mV
Output current	10A	5A	2.5A
Efficiency	80%	84%	85%
Cold start inrush current	40A @ 230V	40A @ 230V	40A @ 230V
Dimensions	65x125x100mm		



▲ Wattage	Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
120W	12V	MP-3195	\$149.00	\$133.95	\$118.95
120W	24V	MP-3196	\$149.00	\$133.95	\$118.95
120W	48V	MP-3197	\$149.00	\$133.95	\$118.95

DIN Rail Power Supplies

Mean Well HDR DIN Rail power supplies are available in 15W, 30W, or 60W and feature an ultra-slim, step shape plastic housing. The HDR family specially adopts the European Union standard DIN EN43880 and slim design with a height of 90mm and the width are only 1SU to 3SU (17.5mm/35mm/52.5mm).

They also feature efficiencies up to 91%, adjustable ($\pm 10\%$) DC output voltage, and a working temperature range of -30°C to +70°C.

Typical applications include building automation, household control system, industrial control system, factory automation and electro-mechanical apparatus.

- Ultra slim design with 17.5mm(1SU) / 35mm(2SU) / 52.5mm(3SU) width
- Universal input 85~264VAC
- No load power consumption < 0.3W
- Isolation class II
- Pass LPS (limited power source)
- DC output voltage adjustable
- Short circuit / overload / over voltage protections
- Cooling by free air convection (working temperature: -30~+70°C)
- DIN rail TS-35/7.5 or 15 mountable
- LED indicator for power on



SPECIFICATIONS	MP-3155	MP-3156	MP-3157	MP-3158	MP-3159
Model No.	HDR-15-12	HDR-30-12	HDR-30-24	HDR-60-12	HDR-60-24
Output Voltage	12VDC Adjustable	12VDC Adjustable	24VDC Adjustable	12VDC Adjustable	24VDC Adjustable
Ripple & Noise	120mV	120mV	150mV	120mV	150mV
Output Current	1.25A	2.0A	1.5A	4.5A	2.5A
Efficiency	85%	88%	89%	88%	90%
Input Voltage	85 ~ 264VAC, 120 ~ 370VDC				
Input frequency	47 ~ 63Hz				
Cold Start Inrush Current	45A @ 230VAC			60A @ 230VAC	
DIN Rail Compatibility	TS35/7.5 or 15 mountable				
Dimensions L x W x D	90x17.5x54.5mm	90 x 35 x 54.5mm		90 x 52.5 x 54.5mm	

▲ Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
15W	12V	1.25A	MP-3155	\$39.95	\$35.95	\$31.95
30W	12V	2A	MP-3156	\$49.95	\$44.95	\$39.95
30W	24V	1.5A	MP-3157	\$49.95	\$44.95	\$39.95
60W	12V	4.5A	MP-3158	\$69.95	\$62.95	\$55.95
60W	24V	2.5A	MP-3159	\$69.95	\$62.95	\$55.95

DIN Rail Brackets

DIN Rail brackets to suit switchmode DIN and enclosed frame power supplies. MP-3150 suits 25 & 40W models MP-3152 suits 60, 100, 120, 150W models MP-3154 Clip is required for the brackets above, which is then attached onto the DIN rail.

Note: M3 and M4 screws are required.

▲ Type	Cat.	Qty 1+	Qty 3+	Qty 6+
1 DIN	MP-3150	\$5.95	\$5.25	\$4.75
2 DIN	MP-3152	\$6.95	\$6.25	\$5.50
Clip	MP-3154	\$5.95	\$5.25	\$4.75



DESKTOP POWER SUPPLIES

Desktop Power Supplies

Mean Well GST series Power Adaptors are highly reliable desktop style single-output green adaptors complying with the latest energy efficiency regulation (EISA 2007/DoE Level VI). With a low no load power consumption (less than 0.075W) and an average operating efficiency up to 90% these are far superior to any other power supply in the market. They are made of 94V-0 flame retardant plastic case and are certified for various international safety regulations.

This range is ideal for use with various types of consumer electronic devices, telecommunication devices, office facilities, industrial equipment, and various kinds of apparatus or systems requiring conformity to the latest energy related regulations.

- 90~264VAC input
- No load power consumption < 0.075W
- 94V-0 flame retardant fully enclosed plastic case
- Complete protection functions:
- Short circuit/overload/over voltage/over temperature (GST60A only)
- 3 pole AC inlet IEC320-C14
- Energy efficiency level VI
- Comply with up to date global energy efficiency regulations
- EISA 2007/DoE, NRCAN, AU/NZ MEPS, EU ErP and CoC Version 5
- Class I power (with earth pin)
- Pass LPS
- LED indicator for power on



SPECIFICATIONS	MP-3252	MP-3254	MP-3256	MP-3258
Model No.	GST60A12-P1J	GST60A24-P1J	GST60A48-P1J	GST120A12-R7B
Input Voltage	90 ~ 264VAC	90 ~ 264VAC	90 ~ 264VAC	90 ~ 264VAC
Output Voltage	12VDC	24VDC	48VDC	12VDC
Output Current	5A	2.5A	1.25A	8.5A
Tolerance	+/- 3.0%	+/- 3.0%	+/- 2.5%	+/- 5.0%
Ripple & Noise	150mV	180mV	240mV	120mV
Efficiency	89.50%	90.50%	92%	88.50%
Input Frequency	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Inrush Current (max)	65A	65A	65A	70A
Output plug type	2.1mm DC (P1J)			
Weight	305g	305g	305g	620g
Dimensions LxWxH	125 x 50 x 31.5mm			

▲ Wattage	Voltage	Current	Cat.	Qty 1+	Qty 5+	Qty 10+
60W	12V	5A	MP-3252	\$49.95	\$44.95	\$39.95
60W	24V	2.5A	MP-3254	\$49.95	\$44.95	\$39.95
60W	48V	1.25A	MP-3256	\$49.95	\$44.95	\$39.95
120W	12V	8.5A	MP-3258	\$99.95	\$89.95	\$79.95

DATASHEETS

Full PDF datasheets are available on our website for Mean Well Power Supplies

LED POWER SUPPLIES

In efforts to conserve energy globally, Mean Well has consistently introduced new series of LED Power Supplies. Our range includes a wide range of products which offer higher efficiency, lower power dissipation, compliance with the latest domestic and international lighting regulations. Mean Well LED Power Supplies are ideally suited for street lighting, architectural lighting, decorative lighting, embedded lighting, indoor lighting, stage and theatre lighting and LED signage. Because of the robust design and high protection levels against dust and moisture, they can be installed in many indoor and outdoor LED applications.



Non-Dimmable - APV Series

The APV series is ideal for users looking for a low cost, reliable constant voltage LED driver for use in indoor applications. All models are subjected to a 100% full load burn in test and these LED drivers are backed with a 2-year warranty.

94V-0 flame retardant plastic is used in the manufacture of the plastic housing and all models feature a full suite of safety protections including short circuit, overload and over voltage protection.

The APV-12E and APV-16E Mean Well LED drivers are supplied with a 1.8m input lead and plug.

Features:

- 180~264VAC input only
- Rectangular plastic case with IP42 level
- Low cost, small and compact size
- Constant voltage mode for APV-E series
- Suitable for indoor LED lighting and moving sign applications



SPECIFICATIONS	MP-3371	MP-3372	MP-3373
Model No.	APV-12E-12AU	APV-16E-12AU	APV-16E-24AU
Output Voltage	12VDC	12VDC	24VDC
Tolerance	+/- 5.0%	+/- 5.0%	+/- 5.0%
Ripple & Noise	120mV	120mV	150mV
Output Current	1A	1.25A	0.67A
Efficiency	81%	79%	82%
Input Voltage	180 ~ 264VAC	180 ~ 264VAC	180 ~ 264VAC
Input Frequency	47-63Hz	47-63Hz	47-63Hz
Cold Start Inrush Current	70A	50A	50A
Weight	80g	100g	100g
Dimensions L x W x H	77 x 40 x 29mm	77 x 40 x 29mm	77 x 40 x 29mm

▲ Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
12W	12V	1A	MP-3371	\$29.95	\$26.95	\$23.95
16W	12V	1.25A	MP-3372	\$39.95	\$35.95	\$31.95
16W	24V	0.67A	MP-3373	\$39.95	\$35.95	\$31.95

Dimmable - LPF Series

The Mean Well LPF-D series is a plastic bodied - constant current dimmable LED driver. It comes with a 5-year warranty and 1.8m input lead and plug. Models in this range have an IP67 ingress protection rating making them suitable for outdoor applications in tougher environments. These can be used in LED panel lighting, LED downlights, LED decorative lighting, LED tunnel lighting and many other applications.

Features:

- 90~305VAC input, built-in active PFC function
- Fully isolated plastic case with IP67 level
- Class II design, without FG
- Built-in 3 in 1 dimming function (1~10VDC, PWM signal or resistance)
- Suitable for LED lighting and moving sign applications



DIMMABLE



SPECIFICATIONS	MP-3374	MP-3375	MP-3376	MP-3377
Model No.	LPF-40D-12AU	LPF-40D-24AU	LPF-60D-12AU	LPF-60D-24AU
Output Voltage	12VDC	24VDC	12VDC	24VDC
Tolerance	+/- 5.0%	+/- 5.0%	+/- 5.0%	+/- 5.0%
Output Current	3.34A	1.67A	5.0A	2.5A
Efficiency	84%	87%	86%	89%
Input Voltage	90 ~ 305VAC	90 ~ 305VAC	90 ~ 305VAC	90 ~ 305VAC
Input Frequency	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Cold Start Inrush Current	50A	50A	55A	55A
Weight	450g	450g	450g	450g
Dimensions L x W x H	162.5 x 43 x 32mm			

▲ Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
40W	12V	3.34A	MP-3374	\$79.95	\$71.95	\$63.95
40W	24V	1.67A	MP-3375	\$79.95	\$71.95	\$63.95
60W	12V	5A	MP-3376	\$89.95	\$80.95	\$71.95
60W	24V	2.5A	MP-3377	\$89.95	\$80.95	\$71.95

LED Drivers - ELG Series

The ELG series is Mean Well's latest generation of IP67 weather proof LED drivers that come with three in one dimming options.

- 0-10V dimming
- PWM signal dimming
- Resistance dimming

Features:

- 100~305VAC input range
- Built-in active PFC function
- No load/standby power consumption <0.5W
- Metal case, IP67 design for indoors or outdoors
- Function options: 3 in 1 dimming (0~10VDC or 10V PWM signal or resistance, dim-to-off);
- Suitable for LED street lighting & outdoor LED lighting
- Constant voltage & constant current mode output

*Note:

A PWM signal is used to vary the current amplitude of the output, this LED driver does not have a PWM output.

DIMMABLE

MP-3378



MP-3380



SPECIFICATIONS	MP-3378	MP-3379	MP-3380	MP-3381
Model No.	ELG-75-12B	ELG-75-24B	ELG-150-12B	ELG-150-24B
Output Voltage	12VDC	24VDC	12VDC	24VDC
Tolerance	+/- 3.0%	+/- 3.0%	+/- 3.0%	+/- 3.0%
Output Current	5.0A	3.15A	10A	6.25A
Efficiency	85%	88%	88%	89%
Input Voltage	100 ~ 305VAC	100 ~ 305VAC	100 ~ 305VAC	100 ~ 305VAC
Input Frequency	47-63Hz	47-63Hz	47-63Hz	47-63Hz
Cold Start Inrush Current	50A	50A	65A	65A
Weight	800g	800g	950g	950g
Dimensions L x W x H	180 x 63 x 35.5mm	180 x 63 x 35.5mm	219 x 63 x 35.5mm	219 x 63 x 35.5mm

▲ Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
75W	12V	5A	MP-3378	\$99.95	\$89.95	\$79.95
75W	24V	3.15A	MP-3379	\$99.95	\$89.95	\$79.95

▲ Wattage	Voltage	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
150W	12V	10A	MP-3380	\$119.00	\$106.95	\$94.95
150W	24V	6.25A	MP-3381	\$119.00	\$106.95	\$94.95

"LAB" POWER SUPPLIES			COMPARISON GUIDE			
		Voltage DC	Current	Display	Output	Page
MP-3079		13.8V	12A		Single	33
MP-3078		13.8V	20A		Single	33
MP-3089		13.8V	40A		Single	33
MP-3096		13.8V	5A		Single	33
MP-3097		13.8V	10A		Single	33
MP-3098		13.8V	20A		Single	33
MP-3800		0-24V	17A	Analogue Meter (Backlit)	Single	33
MP-3802		0-16V	30A	Analogue Meter (Backlit)	Single	33
MP-3840		0-30V	5A	LED	Single	34
MP-3087		2 x 0-32V	3A	LCD (Backlit)	Dual	34
MP-3090		3-15V	40A	LED	Single	34
MP-3842		0-16V 0-27V 0-36V	5A 3A 2.2A	LCD (Backlit)	Single	34

LABORATORY POWER SUPPLIES

Fixed 13.8V Switchmode

High current general workshop power supplies for equipment component testing, etc. Internal cooling fans assist cooling at higher temperatures.

- Banana socket style binding posts
- LED power on indication
- Rear mounted M205 fuse
- Ideal for 12V amateur transceivers, linear amps and high powered car stereo bench testing
- 12, 20 and 40A models

POWERTECH

SPECIFICATIONS

Input voltage range	190 - 240V AC
Output voltage range	13.8V DC regulated
Output connections	4mm Banana/Clamp Type
Recommended fuse	M205 4 amp
Dimensions	MP-3079: 170 x 160 x 85mm MP-3078: 170 x 190 x 85mm MP-3089: 190 x 260 x 105mm



1
YEAR
WARRANTY

▲ Current	Type	Output Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
12A	Fixed	13.8VDC	MP-3079	\$69.95	\$62.95	\$55.95
20A	Fixed	13.8VDC	MP-3078	\$99.95	\$89.95	\$79.95
40A	Fixed	13.8VDC	MP-3089	\$199.00	\$178.95	\$158.95

Fixed 13.8V

These good looking power supplies are available in three current capacities of 5, 10 and 20 amp. They use proven technology and are designed to give long service life in workshop situations.

The range features short circuit protection on the output and a fused input.

SPECIFICATIONS

	MP-3096	MP-3097	MP-3098
Output voltage	13.8VDC	13.8VDC	13.8VDC
Rated output	5 Amps	10 Amps	20 Amps
Surge current	7 Amps	12 Amps	22 Amps
Voltage regulation	<5%	<5%	<5%
Ripple voltage	100mV	120mV	150mV



NEW
LOW
PRICE

1
YEAR
WARRANTY

▲ Current	Type	Output Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
5A	Fixed	13.8VDC	MP-3096	\$99.95	\$89.95	\$79.95
10A	Fixed	13.8VDC	MP-3097	\$139.00	\$124.95	\$110.95
20A	Fixed	13.8VDC	MP-3098	\$199.00	\$178.95	\$158.95

Compact Switchmode Variable

Compact size, high current, variable output and fan cooling make these the ideal power supply for your bench. They are protected against thermal overload and short circuit and will display a warning LED in the event of a fault condition. Current and voltage are displayed on separate backlit analogue meters.

Two models available:

SPECIFICATIONS

	MP-3800	MP-3802
Output voltage	0 - 24VDC	0 - 16VDC
Output current	Max 17A, 15A continuous	Max 30A, 25A continuous
Ripple	<9mVp-p at rated load	<9mVp-p at rated load
Output regulation	<1%	<1%
Dimensions	148(W) x 162(D) x 62(H)mm	148(W) x 162(D) x 62(H)mm



1
YEAR
WARRANTY

▲ Current	Type	Output Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
17A max	Variable	0-24VDC	MP-3800	\$149.00	\$133.95	\$118.95
30A max	Variable	0-16VDC	MP-3802	\$199.00	\$178.95	\$158.95

LABORATORY POWER SUPPLIES (CONTINUED)

0 to 36VDC, 0 to 5A Slimline 80W Lab Power Supply

Often in a workbench environment you don't need massive amounts of power, and your huge unit is underutilised. This slimline power supply provides up to 80W of power, still plenty of grunt for many tasks. It provides constant current and constant voltage options. Simply select your power range, then adjust the controls to obtain your desired outputs. Ranges available are 0-16V @ 0-5A, 0-27VDC @ 0-3A, and 0-36V @ 0-2.2A. Output is provided via banana sockets which will accept insulated banana plugs. A powerful, compact unit for your workbench or mobile toolkit. Includes banana to alligator clamp leads.

- Constant current / constant voltage options
- Up to 5A current
- Compact design



NEW
2017

SPECIFICATIONS	MP-3842
Input Voltage	100-240VAC @ 50/60Hz
Output Voltage/Current	0-16VDC 0-5A (Max), 0-27VDC @ 0-3A (Max), 0-36VDC @ 0-2.2A (Max)
Output Power	80W Max.
Ripple and noise	<30mVPP
Ripple current	<10mA
Load regulation	<20mV @ 100% load
Weight	886g
Dimensions	53(W) x 300(D) x 138(H)mm

1
YEAR
WARRANTY

▲ Current	Type	Output Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
5A/3A/2.2A	Variable	0-16V/0-27V/0-36VDC	MP-3842	\$149.00	\$134.00	\$119.00

3V to 15VDC, 40 Amp Regulated Switchmode

This high powered switch mode power supply will deliver up to 40 amps. It has a variable output voltage from 3 to 15VDC, or it can be fixed at 13.8VDC. The unit is suited to a variety of uses, especially DC powered equipment operating in a test or design environment and is ideal for car stereo work. The unit has overload, over temperature and over voltage protection. Output voltage and current are displayed on large, easily read seven segment LED displays and incorporates an internal cooling fan.

Incredibly light for output capacity, weighing only 3.5kg

SPECIFICATIONS	MP-3090
Variable output	3V DC to 15VDC
Fixed voltage mode	13.8V DC
Max. output current	40 Amps (continuous)
Ripple & noise	10mVRMS
Load regulation	230mV @ 0 - 100% load
Dimensions	220(W) x 110(H) x 300(L)mm



1
YEAR
WARRANTY

▲ Current	Type	Output Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
40A	Variable	3-15VDC	MP-3090	\$379.00	\$339.00	\$299.00

0 to 30VDC, 0 to 5A Regulated Power Supply

A must have for laboratory or home workbenches.

This robust DC power supply features digital control and a large easy to read LED display.

Over-current and short circuit protection are built-in. Voltage is adjustable from 0-30V and current can be adjusted from 0-5A, all through the large front dials.

- Includes a tough carry handle making it ideal for technicians to haul around the lab.
- Perfect for educational, industrial, or professional users.

SPECIFICATIONS	MP-3840
Output voltage	0-30VDC
Output current	0-5A
Ripple and noise	<1.0mVRMS
Ripple current	3mA(ms)
Dimensions	110(W) x 156(H) x 260(L)mm



1
YEAR
WARRANTY

▲ Current	Type	Output Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
5A	Variable	0-30VDC	MP-3840	\$179.00	\$160.95	\$142.95

0 to 32VDC, 0 to 3A Dual Output, Dual Tracking

This automatic constant-voltage/constant-current transfer type power supply is effectively two 0-32VDC 3 Amp power supplies in one case.

The two outputs can be operated independently, connected in parallel, or series for multiple output currents and voltages. Coarse and fine voltage controls are provided on both outputs, along with current limit control.

Both outputs have independent digital voltage and current meters.

- Displays are backlit and extremely easy to read.

SPECIFICATIONS	MP-3087
Output voltage	2 x 0 - 32VDC
Output current	0 - 3 Amps (x 2)
Ripple and noise	<1mVRMS
Load regulation	10mV max.
Dimensions	185(H) x 260(W) x 400(D)mm
Weight	10kg approx



1
YEAR
WARRANTY

▲ Current	Type	Output Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
3A	Variable	2 x 0-32VDC	MP-3087	\$399.00	\$359.00	\$319.00

INVERTERS

Getting 230VAC to run small electrical appliances from your car's battery is easy with our range of general purpose inverters. We have models suitable

for charging your laptop in the bush to running a microwave in a motor home. They have fan assisted cooling and electrical isolation for safety.

INVERTERS						COMPARISON GUIDE	
Wattage	Input	Waveshape	Solar Regulator	Surge	Input Connection	Page	Cat.
150W	12V	Modified Sine		450W	Lighter Plug	36	MI-5127
150W	12V	Modified Sine		450W	Lighter Plug	37	MI-5102
200W	12V	Modified Sine		400W	Lighter Plug	36	MI-5131
300W	12V	Modified Sine		1000W	Screw Terminals	37	MI-5104
360W	24V	Pure Sine		720W	Heavy Duty Screw-down Terminals	38	MI-5703
400W	12V	Modified Sine		1200W	Screw Terminals	37	MI-5106
400W	24V	Modified Sine		1200W	Screw Terminals	37	MI-5107
600W	12V	Modified Sine		1500W	Bolt Terminals	37	MI-5108
600W	12V	Pure Sine	20A	1200W	Heavy Duty Screw-down Terminals	39	MI-5720
800W	12V	Modified Sine		2000W	Bolt Terminals	37	MI-5110
1000W	12V	Modified Sine		2500W	Bolt Terminals	37	MI-5112
1000W	12V	Pure Sine	30A	2000W	Heavy Duty Screw-down Terminals	39	MI-5722
1500W	12V	Modified Sine		3500W	Bolt Terminals	37	MI-5114
1500W	12V	Pure Sine	30A	3000W	Heavy Duty Screw-down Terminals	39	MI-5724
2000W	12V	Pure Sine		4000W	Heavy Duty Screw-down Terminals	38	MI-5710
2000W	24V	Modified Sine		4500W	Bolt Terminals	37	MI-5116
2000W	24V	Pure Sine		4000W	Heavy Duty Screw-down Terminals	38	MI-5712

WHAT TO BUY - SINE WAVE OR MODIFIED SINE WAVE?

TECH TALK

"Modified" sine wave is a crude approximation of the 240V waveform, with square wave components in it. Many appliances are OK with this. Typically these are:

- Most TVs, VCRs CD/DVD players
- Fax machines
- Computers (most)
- Most switchmode power supplies
- Small power tools
- Some audio equipment
- All incandescent lighting

Sine wave is closer to mains and those inverters are much more efficient. Most appliances work OK with the lower cost modified sine.

Sine wave inverters are best for:

- Electric clocks
- Electronic weighing machines
- All other TVs
- Anything where you want to get the most out of a battery charge
- Sensitive equipment
- Mains powered PA equipment
- Plug pack powered equipment

INVERTERS - MODIFIED SINE WAVE RANGE

150W Can-Sized Power Inverter with 2.1A USB Output

Fits in the car's cup holder, plugs into the cigarette lighter socket and outputs 230VAC to power a variety of 230VAC equipment from a battery charger to a laptop power supply. Also features a USB port with 2.1A output, allowing you to quickly charge many modern electronics gadgets, including power-hungry Tablets. It also features electrical isolation to prevent sudden mains voltage at your cigarette lighter socket.

- Powered by cigarette lighter socket adaptor
- Modified sine wave
- USB Output: 5VDC 2.1A
- Dimensions: 165(L) x 60(Dia.)mm

POWERTECH

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
150W 12VDC + USB	MI-5127	\$59.95	\$53.95	\$47.95

200W Inverter with 4 USB Outlets

Great for taking on a quick road or camping trip to recharge your laptop, phone, or some other piece of tech that usually needs a mains outlet. This inverter provides four USB sockets, and two mains sockets, and a cigarette lighter socket to boot!

No fuss, just plug and play!

SPECIFICATIONS	MI-5131
Input Voltage	11-15VDC
Mains Output	200W Rated, 400W Peak
USB Ports	5VDC @ 4.2A (combined max)
Cigarette Lighter Socket	12VDC
AC Output	240VAC @ 50Hz Modified Sine Wave
Dimensions	230(W) x 69(D) x 42(H)mm
Cable Length	1m



NEW 2017

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
200W 12VDC + 4 x USB	MI-5131	\$99.95	\$89.95	\$79.95

INVERTERS - MODIFIED SINE WAVE RANGE - STANDARD RANGE

Getting 230VAC to run small electrical appliances from your cars battery is easy with our range of general purpose inverters. We have models suitable for charging your laptop in the bush to running a microwave in a motor home. They have fan assisted

cooling and electrical isolation for safety. Suits laptops, recharging power tools, batteries, lamps, fluorescents, halogen worklights, electric fans, fax machines, TVs, VCRs, power drills, blenders, belt sanders etc.

• 12V to 230VAC

• All models are electronically isolated

• Look for the max surge ratings for each model

POWERTECH



SPECIFICATIONS	MI-5102	MI-5104	MI-5106	MI-5107					
Output power continuous	150W	300W	400W	400W					
Output power surge	450W	1000W	1200W	1200W					
Standby current	< 300mA	< 300mA	< 300mA	<300mA					
Input voltage	12VDC	12VDC	12VDC	24VDC					
Output waveform	Modified sine wave	Modified sine wave	Modified sine wave	Modified sine wave					
Output regulation	-	-	-	-					
Efficiency	>90%	>90%	>90%	>90%					
USB output	N/A	-	-	-					
Input connection	Cigarette lighter plug	Cigarette lighter / alligator clamps	Screw terminals / alligator clamps	Screw terminals / alligator clamps					
Weight	0.85kg	1.1kg	1.2kg	1.2kg					
Dimensions (L x W x H)	165 x 91 x 58mm	190 x 91 x 58mm	190 x 91 x 52mm	190 x 91 x 52mm					
SPECIFICATIONS	MI-5108	MI-5110	MI-5112	MI-5114	MI-5116				
Output power continuous	600W	800W	1000W	1500W	2000W				
Output power surge	1500W	2000W	2500W	3500W	4500W				
Standby current	< 300mA	< 800mA	< 800mA	< 1A	<2.5A				
Input voltage	12VDC	12VDC	12VDC	12VDC	24VDC				
Output waveform	Modified sine wave	Modified sine wave	Modified sine wave	Modified sine wave	Modified sine wave				
Output regulation	-	-	-	-	-				
Efficiency	>90%	>90%	>90%	>90%	>90%				
USB output	-	-	-	-	-				
Input connection	1m lead with eye terminal	Bolt eye terminals	Bolt eye terminals	Bolt eye terminals	Bolt eye terminals				
Weight	1.7kg	<4.0kg	5.0kg	6.2kg	6.2kg				
Dimensions (L x W x H)	242 x 91 x 58mm	310 x 205 x 75mm	310 x 205 x 75mm	395 x 240 x 90mm	395 x 240 x 90mm				
CIRCUIT PROTECTION	MI-5102	MI-5104	MI-5106	MI-5107	MI-5108	MI-5110	MI-5112	MI-5114	MI-5116
Thermal shutdown/alarm	60°C	60°C	60°C	60°C	60°C	60°C	60°C	60°C	60°C
Low battery alarm	10.5V+/- 0.5V	10.5V+/- 0.5V	10.5V+/- 0.5V	21VDC+/- 1V	10.5V+/- 0.5V	10.5V+/- 0.5V	10.5V+/- 0.5V	10.5V+/- 0.5V	21VDC+/- 1V
Low battery shutdown	10.0V+/- 0.5V	10.0V+/- 0.5V	10.0V+/- 0.5V	20VDC+/- 1V	10.0V+/- 0.5V	15.5V+/- 0.5V	10.0V+/- 0.5V	10.0V+/- 0.5V	20VDC+/- 1V
Battery high shutdown	15.5V+/- 0.5V	15.5V+/- 0.5V	15.5V+/- 0.5V	30VDC+/- 1V	15.5V+/- 0.5V	15.5V+/- 0.5V	15.5V+/- 0.5V	15.5V+/- 0.5V	30VDC+/- 1V
External fusing	20A max	35A max	50A max	25A max	80A max	105A max	140A max	210A max	150A max

1

YEAR

WARRANTY



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
150W	12VDC	MI-5102	\$59.95	\$53.95	\$47.95
300W	12VDC	MI-5104	\$79.95	\$71.95	\$63.95
400W	12VDC	MI-5106	\$89.95	\$80.95	\$71.95
400W	24VDC	MI-5107	\$89.95	\$80.95	\$71.95
600W	12VDC	MI-5108	\$129.00	\$115.95	\$102.95

▲		Cat.	Qty 1+	Qty 3+	Qty 6+
800W	12VDC	MI-5110	\$199.00	\$178.95	\$158.95
1000W	12VDC	MI-5112	\$229.00	\$205.95	\$182.95
1500W	12VDC	MI-5114	\$459.00	\$409.00	\$359.00
2000W	24VDC	MI-5116	\$569.00	\$509.00	\$449.00

INVERTERS - PURE SINE WAVE RANGE FOR TRUCK (24V) & HIGH CURRENT

POWERTECH

These inverters include advanced control logic which provides standard protection (overload, high temperature, over/under input voltage, and output short circuit) as well as a host of additional features to provide improved performance and reliability under adverse conditions. The control logic checks inverter and load conditions at start-up before applying power. It also applies a soft start feature which near eliminates the risk of inverter overload when large appliances with high in-rush currents are used. Overload detection and prevention uses a three stage alarm which acts as a timed warning so you can decrease the load before the inverter completely shuts down. High temperature protection automatically shuts the inverter down when it reaches a predetermined temperature, then

restarts once the temperature has dropped to a lower level. A power saving mode can also be activated to minimise battery drain when the AC output falls below a set power threshold; ideal for use on small appliances such as entertainment equipment. When the threshold is reached the inverter is switched to standby substantially decreasing the standby current draw.

This range includes models suitable for a variety of mobile and permanent power installations. Each model has been rigorously tested (and we MEAN rigorously tested!) to ensure the best performance for your application. All models feature a standard 230VAC mains outlets as well as a USB port for powering and charging USB devices.

**360W
24VDC**

MI-5703

**2000W
12VDC**

MI-5710

**2000W
24VDC**

MI-5712



SPECIFICATIONS	MI-5703	MI-5710	MI-5712
Output power continuous	360W	2000W	2000W
Output power surge	720W	4000W	4000W
Current at no load	200mA	-	500mA
Current in standby mode	50mA	1800mA	150mA
Power saving mode options	OFF, <20W	-	OFF, <30W, <50W, <100W
Input voltage	24VDC	12VDC	24VDC
Output wave form	Pure sine wave	Pure Sine wave	Sine wave
Efficiency	84-91%	>90%	84-91%
Output regulation	±3%	<+/-3%	±3%
Output frequency	50Hz	50Hz	50Hz
USB output	5VDC @ 500mA	5VDC +/-5% 500mA	5VDC @ 500mA
Dimensions	230(L) x 118(W) x 57(H)mm	520(L) x 200(W) x 88(D)mm	450(L) x 230(W) x 74(H)mm
Weight	1.05kg	5.5kg	5.4kg
Input connection	Heavy duty screw terminals	Heavy duty screw terminals	Heavy duty screw terminals
Remote Control	None	-	Wired 5m on/off switch with status light
Output overload	Three stage alarm and shutdown	Shutdown	Three stage alarm and shutdown
Thermal alarm and shutdown	>63° C ±3°	60° C +/-4° C	>63° C ±3°
Thermal shutdown restart	<56° C ±3°	-	<56° C ±3°
Battery low alarm	21.2VDC ± 0.3VDC	10.5VDC +/-0.5VDC	21.2VDC ± 0.3VDC
Battery low shutdown	20VDC ± 0.3VDC	10VDC +/-0.5VDC	20VDC ± 0.3VDC
High battery alarm	30VDC ± 0.3VDC	16VDC +/-0.5VDC	30VDC ± 0.3VDC
Input protection	Internal 25A fuse	-	Internal 150A fuse
Short circuit	-	Shutdown	-
Battery reverse	-	Internal fuse	-

Ideal for trucks

Ideal for trucks

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
360W 24VDC	MI-5703	\$229.00		
2000W 12VDC	MI-5710	\$1,499.00	\$1,349.00	\$1,199.00
2000W 24VDC	MI-5712	\$1,529.00	\$1,369.00	\$1,219.00

Do not regard the power point of an inverter as identical to a household power point. There are subtle differences. Please see note below!

WHEN TO & WHEN NOT TO USE INVERTERS

TECH TALK

We DO NOT recommend that you use these products to operate the following:

- FRIDGES
- AIR COMPRESSORS
- AIR CONDITIONERS

An inverter is a device which converts 12 or 24VDC into 240VAC. The 240VAC generated is as lethal as the power in homes, and should be treated with the same respect. Inverters can be easily damaged, and connecting the input voltage terminals the wrong way around on the battery can damage the unit - be careful!!

Appliances most suitable for connection include:

- most power tools
- lights
- most TVs
- video recorders / players
- most computers
- fax machines
- most audio equipment

Fluorescent lights can give a highly inductive load on start up which can damage inverters. Appliances not suitable include:

- electric blankets
- toasters
- hair dryers
- irons
- radiators
- heavy power tools (large angle grinders, circular saws etc)

Inverters will generally drive inductive loads such as electric motors, but only if the startup current is not high. Generally high startup current situations are when the motor is permanently coupled to a load such as a refrigeration or airconditioner compressor (Imagine the compressor at rest just before top dead centre you can easily realise the start up load on the motor!). Many other motors such as in drills,

small angle grinders, buffers etc start up under virtually no load and this is usually OK for the inverter provided the tool is within the inverter rating. It needs to be pointed out that one of the major differences between a domestic power point and inverter is that the source impedance of a power point is very low compared to the inverter. This is why inverters have trouble with appliances with high start up currents and a domestic power point does not. Another thing that must be remembered is the special case of fluorescent lights with ballast chokes in them (by far the most common type).

Manufacturers of fluoro lights assume that they are just going to be installed to a normal 240V 50Hz sine wave supply. They are required to supply a product that does not overly distort the mains waveform. They generally comply with this by installing a, say, 3.3µF non polarised capacitor across the mains/neutral supply inside the housing of the lamp fitting. This is called a power factor correction capacitor. This seems to work OK for a sine wave supply from a low source impedance. When you drive such a device with modified sine wave 240V power, different things start to happen. The power factor correction capacitor presents a much greater load to a modified sine wave signal (which is a complex collection of high and low frequencies) than it would if it was a sine wave. The bottom line is to reduce this capacitor to about 0.47µF or take it out completely. Inverters are generally OK then. It is also possible for an inverter to be damaged by the surges in current generated when using standard fluorescent starters. This can be prevented by replacing the starter with an electronic starter.

INVERTERS - PURE SINE WAVE RANGE

POWERTECH

These two models are designed to handle a high peak power and surge to power large devices that have high initial current demands. They also feature over and under voltage protection, and high temperature protection that switches the inverter off automatically, and then switches back on again once suitable operating levels return. There is a USB port with 2.1A fast charging output to charge your Smartphone, Tablet and other USB devices. All built within a sturdy housing, design is built to last.

SPECIFICATIONS	MI-5726	MI-5728
Output power continuous	200W	400W
Output power peak	270W (10min)	450W (10min)
Output power surge	400W (1sec)	800W (1sec)
Current in standby mode	<750mA	<1000mA
Input voltage	10.5-15.3VDC	10.5-15.3VDC
Output wave form	Pure sine wave	Pure sine wave
Efficiency	>86%	>86%
Output regulation	±5%	±5%
Output frequency	50Hz	50Hz
USB output	5VDC 2.1A	5VDC @ 2.1A
Dimensions	189(L) x 100(W) x 60(H)mm	213(L) x 100(W) x 60(H)mm
Weight	702g	870g
Input connection	Removeable alligator clamps	Heavy duty screw terminals
Output overload	Beeps 3 times & LED flashes	Beeps 3 times & LED flashes
Thermal alarm & shutdown	> 70°C	> 70°C
Battery low / high shutdown	10.5VDC / 15.3VDC	10.5VDC / 15.3VDC

200W

MI-5726



400W

MI-5728



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
200W	12VDC	MI-5726	\$199.00	\$178.95	\$158.95
400W	12VDC	MI-5728	\$249.00	\$225.00	\$198.95

INVERTERS - PURE SINE WAVE WITH BUILT-IN SOLAR REGULATORS

A truly versatile inverter range that is perfect for off-grid solar power system in caravans, yachts, holiday houses, outback shed, and any standard application where inverters are used. The built-in solar charge controller means you can connect solar panels (without regulator) directly to the inverter to recharge suited batteries or battery banks. This is achieved by a single battery connection to the inverter that allows a charge and draw simultaneously or independently. The pure sine wave AC output makes

them suitable to power most mains appliances within their continuous power output. Features include reverse polarity, battery over/under voltage, overload and over temperature protection as well as 2 x 230VAC mains outlets, two USB ports and an LCD on the unit and a remote control that provides important information such as Battery Voltage, DC Input Current, Output Power, Battery Level and DC Charging Current.

600W

MI-5720



1000W

MI-5722



1500W

MI-5724



For suitable solar panels we recommend 2 x ZM-9059 12V 150W panels in series

Supplied with remote



Rear shot



POWERTECH



SPECIFICATIONS	MI-5720	MI-5722	MI-5724
Output power continuous	600W	1000W	1500W
Output power Surge	1200W	2000W	3000W
Standby current	750mA	750mA	750mA
Input voltage	12VDC	12VDC	230VAC
Output voltage	230VAC	230VAC	12VDC
Output wave form	Pure sine wave	Pure sine wave	Pure sine wave
Efficiency	>90%	>90%	>90%
Output regulation / frequency	±3% / 50Hz	±3% / 50Hz	±3% / 50Hz
2 x USB ports output	5VDC, 1A + 2A	5VDC, 1A + 2A	5VDC, 1A + 2A
Battery connection	Heavy duty screw terminals	Heavy duty screw terminals	Heavy duty screw terminals
Solar charge controller load current	20A max	30A max	30A max
Protections	Reverse polarity, battery over/under voltage, output short circuit, overload, over temperature		
Dimensions	297(L) x 204(W) x 102(H)mm	379(L) x 204(W) x 102(H)mm	429(L) x 204(W) x 102(H)mm
Weight	2.4kg	3.2kg	3.6kg

▲		Cat.	Qty 1+	Qty 3+	Qty 6+
600W	12VDC	MI-5720	\$539.00	\$479.00	\$429.00
1000W	12VDC	MI-5722	\$699.00	\$629.00	\$559.00
1500W	12VDC	MI-5724	\$899.00	\$809.00	\$719.00

ELECTRICALLY ISOLATED INVERTERS

TECH TALK

Our inverter lineup includes models that have dielectric insulation between the 12V(24V) primary and the high voltage (AC) secondary. This means that there is no path for the 240V to appear at the battery bank terminals. The reason for this, of course is safety. Many people these days connect inverters permanently into multiple earth neutral (M.E.N.) 240V house wiring in order to have the convenience of backup power. This is quite common also in buses, RVs and boats which have their mains usually wired to M.E.N. standards. The problem with this is that a situation can occur where in an autotransformer wound inverter, mains can appear on one side of the battery.

You could be working on the batteries in the bilge of a boat, for example, connected to shore power and under a very possible set of circumstances, get electrocuted. If there is no electrical path between the mains 240V and the battery bank you are intrinsically safe. And yes, the great percentage of people use inverters that are not connected to the mains grid and therefore the secondary is floating and fairly safe. As we cannot guarantee the end use of our inverters, we decided to take this step. Note: We recommend that you take the prudent step of earthing the negative battery terminal anyway when installing our new inverters in permanent M.E.N. installations.



WIND TURBINE GENERATORS

Special Announcement!

After a long absence Jaycar has reintroduced wind turbine generators.

When solar panels started to come down in price, wind turbine generators ceased to remain competitive! Wind turbines, however, are still a great option where you need a lot of generating power and don't have room for large solar arrays. Indeed, the two generators below are cheap compared to large solar panel arrays.

They are very rugged and made to marine salt water corrosion resistance specifications and will last a long time.



Two models are available:

Both units have stainless steel shafts, fasteners and marine grade bearings. The housings are cast aluminium, powder coated marine grade. Both models have a built-in microprocessor based controller with peak power tracking.

The 500W unit will generate power at 12VDC or 24VDC (switchable) and in keeping with the high power the larger unit provides power at 48VDC.

They mount with a simple 48mm schedule 40 pipe.
(Pipe supplied by installer.)

500 WATT

This unit that has a 1.2m rotor fan and achieves full power at only 31mph (50km/h) and will produce useful power at 7mph (12km/h).

The unit will withstand wind speeds to 110mph (177km/h).

2 KILOWATT

The larger unit has blades 1.78m diameter and will give full rated power at 72km/h but still 1,000 watts at a wind speed of only 45km/h.



...a great option where you need a lot of generating power and don't have room for large solar arrays



SPECIFICATIONS	500W MG-4550	2KW MG-4552
Wind Turbine Type	Horizontal axis, up-wind	Horizontal axis, up-wind
Rotor Diameter	1.2m	1.776m
Weight	6.7kg	18kg
Mount Diameter	48.6mm	48.6mm
Number Blades	3	3
Blade Material	Carbon fibre	Carbon fibre
Body Material	Aluminum diecast	Aluminum diecast
Generator	Permanent magnet brushless	Synchronous-type, three phase power generator with neodymium iron boron magnets
Controller	Built-in MPPT controller	Built-in MPPT controller
Start-up wind speed	3.1m/s	3m/s (11km/h)
Cut-out wind speed	14m/s	20m/s (72km/h)
Survival wind speed	49.2m/s	49.2m/s (177km/h)
Rated Power	500W at 14m/s	1KW (12.5m/s, 45km/h)
Rated Rotor Speed	1400rpm	1000rpm
Peak Power	500W at 14m/s	2KW (20m/s, 72km/h)
Output Voltage	12VDC or 24VDC dual voltages	48VDC
Braking System	Regenerative electromagnetic braking system	Regenerative electromagnetic braking system
Recommended System	Deep cycle battery 200Ah or more	Deep cycle lead acid battery 420Ah or more

Both units are warranted for 3 years from faulty materials or workmanship.



Mounting mast and guying hardware available separately

*Note: 2kW not stocked at all stores but can be specially ordered. Call store for details.

▲ Voltage	Wattage	Cat.	Qty 1+	Qty 2+	Qty 4+
12/24VDC	500W	MG-4550	\$899.00	\$809.00	\$719.00
48VDC	2000W	MG-4552*	\$3,299.00		

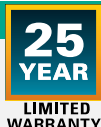
POWERTECH MONOCRYSTALLINE SOLAR PANELS

These high performance monocrystalline solar panels are much smaller, thinner, higher in efficiency and more affordable than our previous models. The manufacturing process for this range uses 36 pieces of 156x156mm A-grade solar cells cut into defined sizes with 4 grid lines, which provides excellent performance under low light environments. Each panel is designed to withstand harsh environmental conditions with a durable anodised aluminium frame and 3.2mm low iron tempered glass.

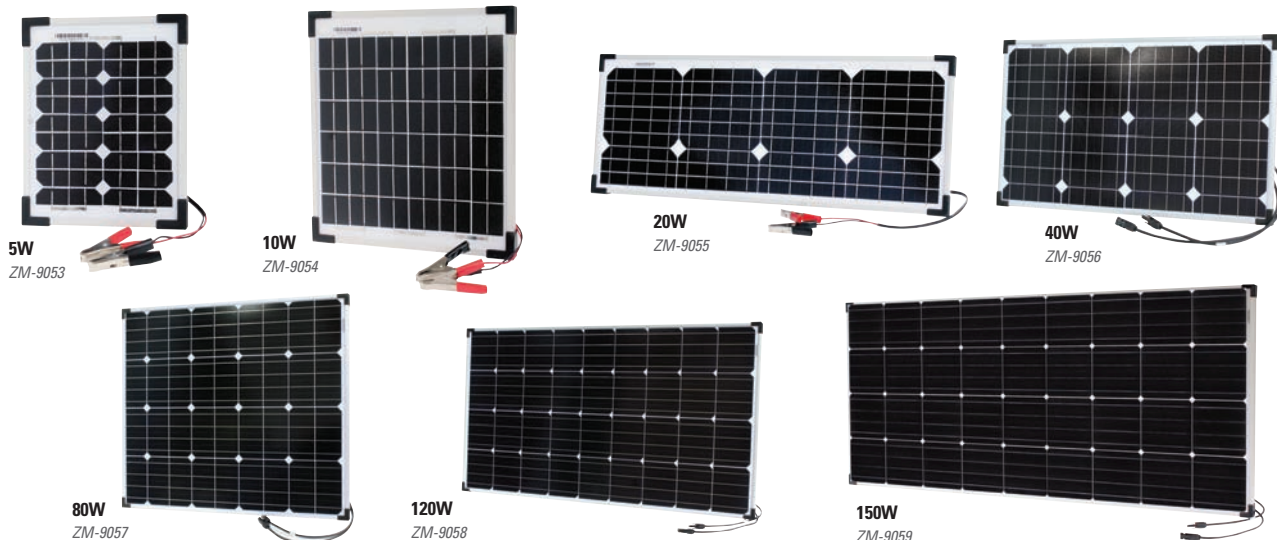
The glass is anti-reflective and has a hydrophobic effect to resist dirt and dust, improving light absorption thereby preventing any needless power loss. The junction box and bypass diodes stops the panel from overheating and suffering from the "hot spot effect". The entire range is easier to install with minimal ongoing maintenance and compatible with industry standard inverters and mounting systems.

25 YEAR LIMITED WARRANTY

All Powertech monocrystalline solar panels are covered by a 25 year limited warranty. This warranty covers the panels for defects in construction and manufacturing for a period of 5 years, and warrants that the electrical output will remain above 80% of its original rated output for a period of 25 years.



POWERTECH



SPECIFICATIONS	ZM-9053	ZM-9054	ZM-9055	ZM-9056	ZM-9057	ZM-9058	ZM-9059
Maximum power (Pmax)	5W	10W	20W	40W	80W	120W	150W
System Output Voltage	12V	12V	12V	12V	12V	12V	12V
Open circuit voltage (Voc)	21.5V	21.5V	21.5V	21.5V	21.6V	21.7V	22.4V
Short circuit current (Isc)	0.32A	0.65A	1.25A	2.5A	4.90A	7.08A	8.66A
Voltage at max power (Vmp)	17.5V	17.5V	17.2V	17.2V	17.6V	17.6V	18.1V
Current at max power (Imp)	0.29A	0.57A	1.16A	2.33A	4.55A	6.8A	8.31A
Termination	Battery clamp	Battery clamp	Battery clamp	MC4 Plug	MC4 Plug	MC4 Plug	MC4 Plug
Cable length	1m	1m	1m	900mm	900mm	900mm	900mm
Dimensions	245 x 193 x 18mm	304 x 270 x 18mm	661 x 259 x 18mm	661 x 402 x 25mm	755 x 661 x 25mm	1179 x 664 x 35mm	1460 x 664 x 35mm

▲ Voltage	Wattage	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	5W	ZM-9053	\$24.95	\$23.45	\$22.45
12V	10W	ZM-9054	\$37.95	\$35.95	\$33.95
12V	20W	ZM-9055	\$59.95	\$56.95	\$53.95
12V	40W	ZM-9056	\$99.95	\$94.95	\$89.95
12V	80W	ZM-9057	\$179.00	\$169.95	\$160.95
12V	120W	ZM-9058	\$249.00	\$229.00	\$219.00
12V	150W	ZM-9059	\$299.00	\$279.00	\$269.00

DISCOUNT TRADE CARD

If you regularly purchase electrical or electronic goods to be used for business



purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type & quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

SHOW US YOUR BUILD COMPETITION

Andrew, who shops at our Jaycar Tuggeranong store built:



10 x solar panels, 3 x charge controllers, 10 x lead acids, 4 x energy meters, 2 x inverters, 8 x battery desulfators (Jaycar parts), 1 x 350 watt wind generator (3 x phase bridge rectifier diodes, with 2 x step up DC to DC converters), mains battery charger, 15 volt over voltage protection.

Lots of Jaycar thanks

FLEXIBLE SOLAR PANELS

Semi-Flexible 12V Solar Panels

These monocrystalline solar panels can be easily mounted on the curved surfaces of your boat deck or caravan to charge on-board batteries. The flexibility of the solar cells is limited by the plastic base but will easily bend on the long axis to accommodate a yacht deck or RV roof. It is slightly flexible on the short axis. Best of all, these units do not have a heavy rigid frame and are therefore light, and easy to stow away when you travel.

The solar cells are implanted in very distinctive and highly resilient polymers that give durability. The flexible non-glass area of the solar panel is tough enough to walk on. We recommend that you add a solar charge regulator to charge the batteries more effectively.

- Maximum recommended bending degree: 20°



SPECIFICATIONS	ZM-9149	ZM-9151	ZM-9153	ZM-9155
Max Power: (Pmax)	15W	30W	80W	100W
Rated voltage	12V	12V	12V	12V
Open Circuit Voltage (Voc)	23.7V	23.7V	18.5V	21.6V
Short Circuit Current (Isc)	0.82A	1.62A	5.58A	5.97A
Max Power Voltage (Vmp)	19.8V	19.8V	15.4V	17.8V
Max Power Current (Imp)	0.76A	1.51A	5.19A	5.62A
Cable length	2 x 850mm	2 x 850mm	2 x 850mm	2 x 850mm
Dimensions	485(L) x 310(W) x 3(D)mm	860(L) x 310(W) x 3(D)mm	975(L) x 560(W) x 3(D)mm	1605(L) x 560(W) x 2.5(D)mm

25
YEAR
LIMITED
WARRANTY

APPLICATION GUIDE FOR SEMI-FLEXIBLE SOLAR PANELS

TECH TALK

Our semi-flexible solar panels are an excellent option for boats, campervans, caravans or camping power setups, as they are a lot lighter and less bulky than their standard solar panel equivalent (only 3mm thick versus 27-35mm thick). Their main structure is a sheet of aluminium alloy material that is flexible, allowing you to bend the panel slightly to follow the curves of your mounting surface for a slimline installation.

Check out our
Folding Solar
Panels on
page 445



▲ Voltage	Wattage	Amps (Max.)	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	15W	0.76A	ZM-9149	\$79.95	\$75.95	\$71.95
12V	30W	1.51A	ZM-9151	\$139.00	\$129.00	\$119.00
12V	80W	5.19A	ZM-9153	\$269.00	\$249.00	\$239.00
12V	100W	5.62A NEW	ZM-9155	\$299.00	\$279.00	\$259.00

SOLAR PANEL MOUNTING HARDWARE

DON'T FORGET THESE ACCESSORIES:

UV Stabilised Solar System Power Cable - IP Rated

Very tough cable, specifically for the rigours of outdoor use in solar panel installations. Dust, age and UV resistant, tinned copper conductors to minimise corrosion. Use with our PV connectors for complete environmental protection.

SPECIFICATIONS	WH-3121	WH-3122
Current(A)	58A	76A
Dia(mm)	4mm sq.	6mm sq.
Conductor material	Tin plate copper, Class 5	
Insulation material	XLPO	
Rated voltage	1000VDC	
Temperature range	-40 to +125°C	
TUV certification	2 PFG 1161/01.06	

TÜV CERTIFIED

100 METRE ROLL

Waterproof Solar Power "PV" Connectors

IP67 rated for maximum environmental protection, these photovoltaic (PV) system connectors are ideally suited to harsh installations such as solar panel arrays and other permanent outdoor applications. When matched with our solar power cables WH-3120 & WH-3122, you can leave your cabling out in the open with the knowledge that you will never have a bad connection or an oxidised power cable. The panel mounting & in-line connectors suit a wide range of system applications:

Assembly Tool: TH-1930
Suitable crimping tools: TH-1834/TH-2000

- Pin dimension 4mm
- Tin plated copper contacts
- Contact resistance <5mΩ
- IP67 rated
- -40°C to +90°C
- Housing material PPO
- TUV certified

SPECIFICATIONS	ALL MODELS
Rated voltage	1000VDC
Rated current	30A at 70°C, 25A at 85°C
Contact resistance	<5 milliohms
Temperature range	-40 - 90°C
TUV certification	2 PFG 1161/01.06

▲ Size	Cat.	Qty 1+	Qty 10+	Qty 50+
Female Inline	PS-5100	\$7.50	\$6.75	\$5.95
Male Inline	PP-5102	\$7.50	\$6.75	\$5.95
Male Panel Mount	PP-5106	\$7.50	\$6.75	\$5.95



Stainless Steel Power Distribution Posts



Heavy duty stainless steel posts mounted on a moulded plastic base.

- 48VDC max.
- Mounting hole diameter: 4.5mm
- Mounting hole spacing: 36mm between centres
- Dimensions: 45(W) x 43(L) x 35(H)mm

**DO NOT USE
FOR 240V**

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Single M10	SZ-2090	\$9.95	\$8.75	\$7.75
Twin M8	SZ-2092	\$11.95	\$10.75	\$9.55
Twin M6	SZ-2094	\$11.95	\$10.75	\$9.55

Solar Panel 'Y' Leads

Used for connecting the output of two solar panels in parallel or connecting multiple panels in an array. Waterproof and UV resistant.

- Pin dimension 4mm
- Contact resistance <5m ohm
- -40°C to +90°C
- TUV certified.
- Tin plated copper contacts
- IP67 rated
- Housing material PPO
- Both are 300mm long.

2 SOCKETS TO 1 PLUG Generally used on the positive pole of the panel.



2 PLUGS TO 1 SOCKET Generally used on the negative pole of the panel.



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Sockets to 1 Plug	PS-5110	\$19.95	\$17.95	\$15.95
2 Plugs to 1 Socket	PS-5112	\$19.95	\$17.95	\$15.95

CIRCUIT PROTECTION FOR PV APPLICATIONS

DIN Rail Mounting AC Circuit Breakers

DIN rail mounted circuit breakers for domestic and commercial switchboards, fuse boxes, distribution boards etc.

- Standard DIN profile.
- Electrical safety authority approved.



▲	240VAC		Cat.	Qty 1+	Qty 4+	Qty 10+
	Single Pole - 10A	240VAC	SF-4150	\$4.95	\$4.45	\$3.90
	Single Pole - 16A	240VAC	SF-4151	\$4.95	\$4.45	\$3.90
	Single Pole - 20A	240VAC	SF-4152	\$4.95	\$4.45	\$3.90
	Single Pole - 32A	240VAC	SF-4153	\$4.95	\$4.45	\$3.90

4 Way Lockable IP66 Circuit Breaker Enclosure

Designed to take the range of DIN rail circuit breakers. Standard 4-pole ABS enclosure, spring loaded clear front cover with padlock tabs, top, bottom and rear cable entry, DIN rail included, sealed to IP66. Suitable for electrical installations or solar applications.

- Dimensions: 96(W) x 195(H) x 98(D)mm



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	Fuse Holder	SF-4158	\$39.95	\$35.95	\$31.95

SHOW US YOUR BUILD COMPETITION

Nathan, who shops at our Jaycar Shelharbour store built:



After the HSC I have been fitting out my van for travel. This included installing a fridge, 130AH battery, 20A battery charger, 8 rocker switches, 2 x 12V & 2 USB outlets, a voltmeter, a 10" 750W subwoofer & amplifier, a 7" head unit, various fuses, LED lighting, a bed & insulation.

Ultra High Current Fuses

Littelfuse® patented technology designed for high current protection, found OEM on Ford, GM and Chrysler vehicles. Slo-Blo® feature eliminates nuisance blowing during temporary, short duration overloads. Commonly used for battery and alternator connections and other heavy gauge cables requiring ultra high current protection.

- SF-1982 and SF-1984 are slow blow fuses
- SF-1986 is a short-circuit protection device
- Rated up to 32V AC or DC.
- Terminal studs 8mm.



HIGH CURRENT FUSE HOLDER Cat SF-1980
BOLT-DOWN FUSE 125A Cat SF-1982
BOLT-DOWN FUSE 250A Cat SF-1984



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	Fuse Holder	SF-1980	\$24.95	\$22.35	\$19.70
	Bolt Down Fuse - 125A	SF-1982	\$9.95	\$8.75	\$7.75
	Bolt Down Fuse - 250A	SF-1984	\$9.95	\$8.75	\$7.75

Solar Power Meter

Installing solar panels can result in a missed opportunity if they're not positioned optimally to catch the radiation from the sun. Similarly to a TV installer using a signal meter, you can use this device to find optimum locations on a rooftop (or wherever you're installing them) to help ensure they'll be efficient and generate as much of their rated power possible for your location. Expressed as either W/m² (Watts per square metre), or BTU/ft² (British thermal units per square foot). Measurement up to 1999W/m², or 634BTU/ft². With data hold and high accuracy, you can get rapid readings on the huge LCD. Includes carry case.

- Optimise solar panel installation
- High accuracy
- Fast readings



SPECIFICATIONS	QM-1582
Range	0-1999W/m ² , 634BTU/ft ²
Resolution	1W/m ² ; 1 BTU/ft ²
Sampling Time	0.25 Seconds Approx.
Power	3 x AAA Batteries (Included)
Weight	260g
Dimensions	63(W) x 162(H) x 28(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1582	\$129.00	\$116.00	\$103.00

RELATED PRODUCTS

Solar Success - Complete Guide to Home and Property Systems

A complete guide for home and remote property systems, this book is about using solar energy to reduce the fossil fuel generated electricity that produces our carbon footprint. This can be done by three associated and economically viable approaches: reduce energy usage by doing things differently, reduce energy usage by using more energy-efficient appliances, and, change the supply of energy to non-fossil fuel through appropriate technology. A pragmatic no-nonsense approach to solar energy written by acclaimed Australian author Collin Rivers, who walks the walk by showing his self-installed solar system on his 100% solar powered 10-acre property in the Kimberley. Spiral bound softcover.

- 100 pages, 297 x 210mm



▲	Cat.	Qty 1+
	BE-1537	\$54.95

Solar that Really Works!

The sun god Ra has been raining down free energy for about 4.5 billion years and it is only in recent years that humans have developed the technology to capture it. This is an informative book that fills a previously all but unexplored need in one concisely written book. It covers everything you need to know to design a solar electrical system, for everything from a caravan to a permanent remote dwelling. It also contains specialised information for applications such as converted coaches. Solar that Really Works shows what can and can not be run from typical solar installations as well as how to calculate energy requirements. You won't be left asking questions, as the author has everything covered!

- Completely revised 3rd edition
- Softcover, 96 pages, 297 x 210mm (A4)



▲	Cat.	Qty 1+
	BE-1535	\$49.95

SOLAR PANEL MOUNTING HARDWARE (CONTINUED)

Ecotech Professional Solar Mounting Hardware

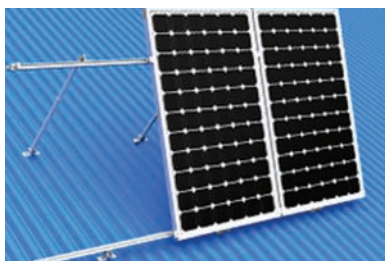
A universal and code compliant mounting system for attaching solar panels to the roof of your property. Designed to be used with either tiled or tin roofs, with any slope from 0-60° (either flat or pitched), and fully cyclone rated even for wind region D. The easy insertion modules mean that you don't have to slide each attachment along the rail to get it in place, they slot in quite easily at the very spot you want to attach them. For use with 35mm thick modules, a full range of components are available.

- Cyclone proof to Wind Region D (installation guide must be strictly adhered to)
- Vertical or horizontal panel mounting
- Suits any solar panel width, but optimised for 800-825mm width
- Suitable for aluminium framed panels
- 10 year materials warranty
- AS/NZS 1170 approved
- Roof slope: up to 60°
- Wind load: 80m/s
- Snow load: 1.4kNm²

Note: not available at all stores but can be ordered



Corrugated Iron Roof



Corrugated Iron Roof

RAILS & SPLICES

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
2560mm Solar Panel Rail 3PV	HS-8800	\$49.95	\$44.90	\$39.90
3405mm Solar Ecotech Rail	HS-8801	\$69.95	\$62.95	\$55.95
4200mm Solar Ecotech Rail	HS-8802	\$84.95	\$76.50	\$67.95
Solar Panel Mounting Rail Splice	HS-8803	\$9.95	\$8.75	\$7.75

CLAMPS, HOOKS & LEGS

	Cat.	Qty 1+	Qty 4+	Qty 10+
Solar Panel Rail End Clamp 35mm	HS-8804	\$3.95	\$3.45	\$3.15
Solar Panel Rail Mid Clamp 35mm	HS-8805	\$3.95	\$3.45	\$3.15
Solar Panel Tile Roof Hook	HS-8806	\$26.95	\$23.95	\$21.35
Solar Panel Tin Roof Hook	HS-8807	\$8.95	\$7.95	\$6.95
Solar Panel Adjacent Front Leg Tilt	HS-8810	\$15.95	\$14.35	\$12.70
Solar Panel Mounting Back Leg 10-15°	HS-8811	\$39.95	\$35.90	\$31.90
Solar Panel Mounting Back Leg 15-30°	HS-8812	\$49.95	\$44.90	\$39.90
Solar Panel Mounting Back Leg 30-60°	HS-8813	\$59.95	\$53.95	\$47.90

Universal Individual Solar Panel Mounting Bracket

Designed for mounting solar panels individually to a fixed surface, such as the roof of a caravan, motor home, shed, or any number of other applications. Not only do these brackets provide secure & easy mounting, but they also space the panel up to provide necessary airflow. Each bracket includes a stainless steel M6 bolt and nut to attach it to the factory holes in the aluminium frame of your solar panel, meaning that no drilling or modification is required. Sold individually, so you just have to purchase the quantity that suits your panel & application.

- Made from 6061 aluminium alloy
- Recommended quantity for panels up to 40W: 4
- Recommended quantity for panels 40W-200W: 6
- Spacing from mounting surface: 22mm
- Dimensions: 80(L) x 68(W) x 35(H)mm



Note: Solar panel not included

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HS-8780	\$7.95	\$6.95	\$6.25

Joiner Bracket 80mm

Joins two rails together.

- Includes fasteners
- Mounting hole: 9.5(dia.)mm
- 80(L) x 45(W) x 40(H)mm



▲	Cat.	Qty 1+
Joiner Bracket 80mm	HS-8714	\$12.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here!
Check our website for over 3,500 pages of data!



ABS Solar Panel Mounts for Caravan/Marine

Attaching solar panels to the roof of your caravan or the deck of your boat may sound like a relatively straight forward procedure - if you are happy to drill holes. If you've just sunk tens of thousands of dollars into your caravan or boat, that's probably the last thing you want to do, which is why we have introduced this range of ABS solar panel mounts.

Quite simply, you stick these heavy duty ABS plastic mounts onto your caravan or boat using Sikaflex®, and then screw your panel onto the mount. The solar panel is kept with adequate space underneath for cooling, and the curved design ensures adequate wind deflection for high winds.

There are 4 different products, which can be used in any combination to suit your specific application. White in colour.

ABS SOLAR PANEL CORNER MOUNTS

A set of four corner mounts, to attach each corner of your solar panel to your desired mounting surface. These can be used on their own for solar panels 40W or smaller.

- Dimensions: 150(L) x 150(W) x 65(H)mm

Set of 4, Cat. HS-8860



ABS SOLAR PANEL SIDE MOUNTS 180MM

This pair of side mounts are intended to be attached to the long edge of taller solar panels, such as 80W and above, adding extra mounting strength and giving more wind deflection.

- Dimensions: 180(L) x 120(W) x 65(H)mm

PAIR, Cat. HS-8862



ABS SOLAR PANEL SPOILER MOUNTS 510MM



Specifically designed to deflect wind on solar panel edges that face into high winds, such as the leading edge of solar panels mounted on caravan or RV rooftops. Well matched to 80W and 90W panels oriented with the short edge leading into the wind.

- Dimensions: 510(L) x 120(W) x 65(H)mm

PAIR, Cat. HS-8864

ABS SOLAR CABLE ENTRY POINT

Usually, at some point the solar power cables need to enter into the caravan or boat and down to the battery area. To avoid making unsightly and potentially leaky cable entries, you can use this neat product and drill out your cable entry point, and then cover it over giving you two fully waterproof cable gland cable entries that look neat and purpose built.

- IP67 cable glands included
- Dimensions: 100(L) x 90(W) x 45(H)mm

Cat. HS-8866



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Corner Mounts Set of 4	HS-8860	\$39.95	\$35.90	\$31.90
Side Mounts 180mm - Pair	HS-8862	\$24.95	\$22.45	\$19.95
Spoiler Mounts 510mm - Pair	HS-8864	\$49.95	\$44.95	\$39.95
Cable Entry Point	HS-8866	\$14.95	\$13.45	\$11.95

SHOW US YOUR BUILD COMPETITION

David, who shops at our Jaycar Modbury store built:



This solar rig powers my home and recording studio. It has 20 x 260W panels, 5KW inverter, 3 x CombiPlus systems, Powertech 360W & CSA 150W inverters, 3 x 12v 270A/H & 12V 150A/H AGM batteries, Powertech 200A breakers, power meter, charger, DC switch, buss bars & cable, AC breakers.

SOLAR REGULATORS / CHARGE CONTROLLERS

12V 5A Battery Charging Regulator for Solar Panels

Designed for efficiently charging 12V batteries using solar cells rated up to 5 amps. It is easy to wire up, prevents battery discharge during low sunlight and indicates charging and full battery conditions using a yellow and green 3mm LED.

- Ideal for charging 12V SLA batteries from solar panels up to 60 watts
- 5 amp fuse and fuse holder recommended - not supplied

SPECIFICATIONS	AA-0348
Input	14 to 30V (open circuit voltage), nominal 12V
Max. input current	6A
Inrush voltage	battery voltage < approx. 13.4V
Interrupting voltage	battery voltage > approx. 14.4V
Own power consumption	<2.5mA (LED's on)
Dimensions	72(W) x 50(D) x 42(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 5A	AA-0348	\$29.95	\$26.95	\$23.95

12V 8A Water Resistant PWM Solar Charge Controller

Suitable for both wet-cell and sealed lead-acid batteries and uses pulse width modulation for optimal 3-stage charging. It is compatible with all types of solar arrays and is potted in epoxy resin making it water resistant and suitable for use in areas of high humidity, such as outdoor or mounted to the back of a solar panel. The controller also features a "night light" load output which will automatically connect the load during the evening and disconnect it during the daytime, which also has low-voltage disconnect/re-connect protection. Reverse current flowing through the solar array is automatically blocked in this unit which removes the requirement for a separate blocking diode, and different charge voltages are selectable for wet or sealed type lead-acid batteries. Over current, over voltage, short circuit, over temperature, and reverse polarity protections also featured. Full specs available on our website

SPECIFICATIONS	MP-3720
Max PV open circuit voltage	26VDC
Max PV short circuit current	10A
Battery voltage	12VDC
Rated PV input current	8A (10A max)
Load voltage	12VDC
Rated load current	8 amps (10A max)
SLA charging voltage	14.5VDC
Wet cell charging voltage	14.8VDC
Float voltage	13.8VDC
Standby current consumption	7mA
Dimensions	97(L) x 46(W) x 26(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 8A	MP-3720	\$64.95	\$58.45	\$51.95

12V 20A Super Solar Panel Regulator

With a massive 20 amp current handling, this switching solar panel regulator is lightweight, easy to install and does not require a heatsink. It installs easily and features automatic operation, LED power indication and boasts an efficiency up to 99.2% @ 20 amps. Not only does the regulator switch the solar panel in and out depending on the battery voltage, the regulator will disconnect the solar panel after approx 20 minutes at night fall to prevent any losses into the panel overnight. Completely Automatic.

- Battery or solar power LED indication
- Suitable for 1 to 20 amps
- Handles open circuit panel voltages 32 Volts
- Reverse Polarity Protected



SPECIFICATIONS	MP-3126
Terminals	6.4mm spade lug
Efficiency	97.0% @ 5 amps, 98.5% @ 10 amps, 99.2% @ 20 amps
Weight	75 grams
Dimensions	66(L) x 51(W) x 34(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 20A	MP-3126	\$79.95	\$75.95	\$71.95

Solar Charge Controllers

You make a substantial investment in a solar power setup, so make sure you look after your expensive batteries. With these charge controllers, you have total control over battery charging and power usage. The LCD shows the system status and LEDs at a glance show battery charge status, load status and solar panel connection. They also have features like microprocessor control, programmed with 3-stage charging algorithms and pulse width modulation duty cycles of 0 - 100% to provide optimum charge conditions and battery life.

- User-adjustable charging voltages
- Suitable for wet or sealed lead-acid, lead calcium, lead antimony, Ni-Cd or NiFe batteries
- Microprocessor control PWM (Pulse Width Modulation) for optimum charging
- 3-stage, bulk, absorption and float charge modes with status on LCD
- Amp-hour logging readouts in 3 sets, today & last 2 days
- 5-state LED indications of battery levels
- Electronic overcharge protection and back current blocking to panel
- Dusk to dawn automatic on-off with 10 selectable on-off programs
- Adjustable battery low voltage level disconnect & reconnect for DC outputs
- System status display: charge current, battery voltage and capacity
- Overload and short circuit protection
- Over voltage and reverse polarity protection



Refer to
YouTube
video SBC7120
for installation
information



SPECIFICATIONS	MP-3129	MP-3722
Rated charge/load current	20A	30A
System voltage	12V	12V
Dimensions	150(W) x 85(D) x 45(H)mm	150(L) x 85(W) x 50(H)mm

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 20A	MP-3129	\$179.00	\$160.95	\$142.95
12V 30A	MP-3722	\$219.00	\$196.95	\$174.95

Battery Temperature Sensor for Solar Charge Controllers

Designed to compensate the charging voltage of PV charge controllers and lead acid battery chargers. It's an integrated circuit temperature sensor, sealed in epoxy to a copper sensor lug that connects to the battery terminal. It has a sensing temperature range of -40° to 100°C. The sensor IC has a gain of 10mV/degree Celsius and it is calibrated with the temperature compensation circuit of



our PV charge controllers at 25° at the rate of 20mV per degree of temperature change, for example, a temperature increase of 10° will decrease the charging voltage by 200mV, and a decrease of 10° will increase the charging voltage by 200mV.

- Suitable for solar charge controllers MP-3129, MP-3722, MP-3724.



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	MP-3725	\$29.95	\$26.90	\$23.70

See our NEW
Solar Panel Meter
on page 42



SOLAR CHARGE CONTROLLERS

Directly connecting a solar panel or array to a battery can be catastrophic as solar panels can output a wide voltage range. As an example, a nominal 12 volt rated panel can output anything up to 22 volts during an average sunny day. A solar charge controller between the panel and the battery ensures the battery receives the correct output voltage and current from the panel to minimise the risk of the battery being overcharged or discharging back into the panels. Charge controllers come in a variety of types which give different performance and can be matched to simple recreational applications all the way up to complex high power solar array installations

SWITCHING:

Simple switching controllers connect the panel to the battery when the panel is providing power & the battery is not fully charged. This type of controller is low cost and only good for basic solar equipment setups such as standby lighting, etc where the panel yield is far higher than the load requires.

PWM:

Pulse width modulated (PWM) controllers continually apply voltage pulses to the battery whenever the panel is providing sufficient voltage. The pulse width (or duration) is varied by the controller depending on the charge state of the battery to ensure the correct amount of charge is harvested from the panel whenever it is available. As a result, PWM controllers provide a much higher power yield than simple switching controllers.

MPPT:

Maximum power point tracking (MPPT) controllers maximize power conversion between the panel output and the battery input by using a DC to DC switchmode power converter. By continuously tracking the panel output and adjusting the converter they yield the maximum amount of power under widely varying solar conditions. MPPT controllers give the best solar system efficiency and improve solar system power yield by a significant percentage.

Both PWM and MPPT controllers are available with display panels which allow you to track performance of the solar system. Panel voltage, battery voltage, charging current, and total charge supplied can be easily displayed so you can ensure the system is running correctly. More complex models also include integration functions to remotely control other equipment or be linked into advanced systems.

TECH TALK

SOLAR REGULATORS / CHARGE CONTROLLERS (CONTINUED)**12V/24V MPPT* Solar Charge Controllers**

MPPT technology uses DC to DC conversion along with some electronic smarts to be able to extract the absolute maximum charging power from your solar panels, giving you up to an extra 10-40% from your solar panels when compared to a normal PWM charge controller. Adding to the benefits of MPPT technology are the features of this charge controller, such as 3-stage battery charging, twin timer programming, 30A load control with automatic load disconnection/reconnection, and much more. Programming is simple and intuitive via the front panel buttons whilst the LCD screen shows you what's happening.

Suitable for 12V or 24V systems.

- Automatic load control with low-voltage disconnect/reconnect
- Two timers available for programming
- Includes temperature sensor for battery charging compensation
- Protection against over voltage, reverse connection, short circuit, over current, and over temperature

NOTE: Unit WILL charge a 12V battery from 24V solar panels, but not vice versa.

*MPPT mean Maximum Power Point Tracking

SPECIFICATIONS	MP-3739 12V BATTERY	MP-3739 24V BATTERY	MP-3735 12V BATTERY	MP-3735 24V BATTERY
PV nominal voltage	12V	24V	12V	24V
Max PV array	180W	360W	360W	720W
Max PV open circuit voltage	50V	50V	65V	65V
Bulk charge (adjustable)	13.8-14.8V	27.6-29.6V	13.80-14.8V	27.6-29.6V
Float voltage (adjustable)	13.0-14.2V	26.0-28.4V	13.0-14.0V	26.0-28.0V
Max charge current	15A	15A	30A	30A
Max load current	15A	15A	30A	30A
Ambient temp range	-20°C - 50°C	-20°C - 50°C	-20°C - 50°C	-20°C - 50°C
Efficiency	98%	98%	97%	97%
Dimensions	205(L) x 145(W) x 55(H)mm		205(L) x 145(W) x 55(H)mm	

NEW
2017



1
YEAR
WARRANTY

▲	12V/24V	15A	NEW	Cat.	Qty 1+	Qty 2+	Qty 4+
	12V/24V	30A		MP-3739	\$149.00	\$133.95	\$118.95
				MP-3735	\$259.00	\$235.00	\$209.00

50 AMP MPPT Solar Charge Controller

A highly intelligent charge controller for use with solar installations. Use with 12, 24, 36, or 48V battery banks. Maximum Power Point Tracking (MPPT) for maximum efficiency and charge rate. For use with solar arrays up to 95VDC. It features adjustable bulk and float charge voltages to fine-tune for your installation, and heavy duty terminals for heavy gauge cabling. The LCD provides feedback on charge status, current and voltages. Built into a durable heatsink case for permanent installation.

- High Efficiency MPPT Charging
- Automatic Charge Management
- Overcharge Protection
- Under-Voltage Protection
- Reverse Current Protection

SPECIFICATIONS	MP-3731
Compatible Battery Bank Voltages	12 / 24 / 36 / 48VDC Selectable
Maximum Input Power	650W (12VDC System) / 1300W (24/36/48VDC System)
Input Voltage	16 - 95VDC
Max Charging Current	50A (12 / 24VDC), 35A (36VDC), 25A (48VDC)
MPPT Efficiency	> 99%
Max Load Current	50A
DC Load Output Voltage	Battery Voltage
Over Discharge Voltage	11.3 / 22.6 / 34.2 / 45.6
Overnight Standby Current	60mA Max
Dimensions	202(W) x 235(H) x 88(D)mm, 2kg



NEW
2017

1
YEAR
WARRANTY

▲	12/24/36/48VDC	Max Load Current	Cat.	Qty 1+	Qty 2+	Qty 4+
		50A	MP-3731	\$449.00	\$399.00	\$359.00

SunStar Advanced MPPT Solar Charge Controller

True commercial grade MPPT solar charge controller from Rich Electric, with a whole host of features to suit almost any system. This controller features high grade maximum power point tracking (MPPT) to provide maximum efficiency in converting solar generated power into battery charging. With a wide solar (PV) input voltage range and ability to charge either a 12V, 24V, 36V or 48V battery, this MPPT controller can be used in any number of different system applications. The two auxiliary relay

- Continuous output power has NO DE-RATING at up to 50°C ambient temperature
- Supports flooded lead-acid, GEL, AGM and LiFePO4 batteries
- Full 4-stage battery charging
- Built-in energy monitor tracks power production and consumption to calculate the capacity remaining in the battery (requires external current shunt)
- Built-in backlit 2 line LCD character display
- Data logs total energy harvested for last 90 days, displaying in Wh, kWh or Ah
- Two programmable auxiliary relay outputs available
- Multiple units can be stacked for larger systems (up to 16 units in parallel)

outputs can also be configured to do such tasks as start up a generator with remote start, or control a dump load so that you can also incorporate a wind generator into the system. With the ability to parallel stack up to 16 units, they can even be applied to solar arrays up to 60kW! See user manual on our website for full features and specifications.

**RICH
ELECTRIC**

SPECIFICATIONS	MP-3736
Max charge current (continuous at 50°C)	50A
Battery voltage	12V, 24V, 36V or 48V
Max PV input current	40A
Input voltage range	16-112VDC operating, 140VDC open circuit
Efficiency	>95%
DC to DC conversion capability	12V battery: 16-112VDC, 24V battery: 32-112VDC 26V battery: 48-112VDC, 48V battery: 64-112VDC
Max PV array	3250W max when equalising 48V battery to 65V
Charging modes	Bulk, absorption, float, auto/manual equalisation
Battery temp compensation	5.0mV per °C per 2V of battery
Standby power	<2W
Operating temp	Full output power up to 50°C ambient
Dimensions	268(H) x 196(W) x 147(D)mm, 4.3kg

Look for our range of
Pure Sine Wave
Inverters with Built-In
Solar Regulators on
page 39



2
YEAR
WARRANTY






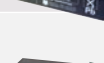









▲	12V/24V/36V/48V	50A	Cat.	Qty 1+	Qty 2+	Qty 4+
			MP-3736	\$1,229.00	\$1,099.00	\$979.00

SEALED LEAD ACID BATTERIES

Sealed lead acid batteries are used generally for two purposes. Standby applications such as emergency power for safety lights or security systems, computer peripheral terminals etc. and cyclic applications as portable power for MP3 players, DVRs, toys, lights & use with solar panels for remote power.

- Leak proof construction
- Long service life
- Usable/rechargeable in any position
- Deep discharge recovery
- Wide operating temperature range
- High discharge rate capability
- Designed not to discharge hydrogen into the atmosphere

Charging voltage for 12 volt is 14.7 volts and for 6 volt is 6.8 to 7.4 volts. The charging time must be doubled if the charge current is halved.

SEALED LEAD ACID BATTERIES							COMPARISON CHART			
		Capacity	20hr rate	10hr rate	5hr rate	1hr rate	Initial Charge Current	Cycle Voltage	Standby Voltage	Page
SB-2495		6V 1.3Ah	65mA (1.3Ah)	117mA (1.17Ah)	208mA (1.04Ah)	780mA (0.78Ah)	<0.39A	7.20-7.50V	6.75-6.90V	46
SB-2496		6V 4.5Ah	210mA (4.2Ah)	378mA (3.7Ah)	672mA (3.36Ah)	2.25A (2.25Ah)	<1.2A	7.20-7.50V	6.75-6.90V	46
SB-2498		6V 5Ah	250mA (5.0Ah)	450mA (4.5Ah)	800mA (4Ah)	3.0A (3.0Ah)	<1.5A ¹	7.20-7.50V	6.75-6.90V	46
SB-2497		6V 12Ah	600mA (12Ah)	1.08A (10.8Ah)	1.92A (9.6Ah)	7.2A (7.2Ah)	<3.6A	7.20-7.50V	6.75-6.90V	46
SB-2480		12V 1.3Ah	65mA (1.30Ah)	117mA (1.17Ah)	208mA (1.04Ah)	780mA (0.78Ah)	<0.39A	14.4-15.0V	13.5-13.8V	46
SB-2482		12V 2.2Ah	110mA (2.2Ah)	198mA (1.98Ah)	352mA (1.76Ah)	1.32A (1.32Ah)	<0.66A	14.4-15.0V	13.5-13.8V	46
SB-2484		12V 4.5Ah	200mA (4.5Ah)	380mA (3.8Ah)	680mA (3.4Ah)	2.40A (2.4Ah)	<1.2A	14.4-15.0V	13.5-13.8V	46
SB-2485		12V 6.5Ah	300mA (6.5Ah)	486mA (4.86Ah)	864mA (4.32Ah)	3.24A (3.24Ah)	<1.62A	14.4-15.0V	13.5-13.9V	46
SB-2486		12V 7.2Ah	360mA (7.2Ah)	650mA (6.5Ah)	1.15A (5.75Ah)	4.32A (4.32Ah)	<2.1A	14.4-15.0V	13.5-13.8V	46
SB-2487		12V 9Ah	450mA (9Ah)	810mA (8.1Ah)	1.44A (7.2Ah)	5.4A (5.4Ah)	<2.7A	14.4-15.0V	13.5-13.9V	46
SB-2489		12V 12Ah	600mA (12Ah)	1.08A (10.8Ah)	1.92A (9.6Ah)	7.2A (7.2Ah)	<3.6A	14.4-15.0V	13.5-13.9V	46
SB-2490		12V 18Ah	900mA (18Ah)	1.72A (17.2Ah)	3.05A (15.2Ah)	10.8A (10.8Ah)	<3.4A	14.4-15.0V	13.5-13.9V	46
SB-1698		12V 26Ah	1.3A (26Ah)	2.11A (21.1Ah)	3.74A (18.7Ah)	14A (14Ah)	<7.8A	14.4-15.0V	13.5-13.9V	47
SB-1699		12V 38Ah	1.94A (38.8Ah)	3.8A (38Ah)	6.16A (30.8Ah)	22.3A (22.3Ah)	<12A	14.4-15.0V	13.5-13.9V	47
SB-1695		12V 100Ah	5.1A (102Ah)	10A (100Ah)	16.2A (81Ah)	58.5A (58.5Ah)	<30A	14.4-15V	13.5-13.8V	47

Note 1: Current is limited by spring terminal type

6 VOLT SLA BATTERIES



▲	Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
1.3Ah	97(L) x 51(D) x 21(H)mm	SB-2495	\$12.95	\$11.35	\$10.35
4.5Ah	70(L) x 47(D) x 106(H)mm	SB-2496	\$14.95	\$13.35	\$11.70
5Ah	67(L) x 67(D) x 97(H)mm	SB-2498	\$19.95	\$17.95	\$15.95
12Ah	151(L) x 51(D) x 100(H)mm	SB-2497	\$32.95	\$29.65	\$26.35

SLA Battery Carry Bag

Designed for carrying a large sealed lead-acid battery. Suits sealed lead-acid batteries 12V 7.2Ah (SB-2486) or 6V 12Ah (SB-2497) - (and Panasonic equivalents) approx. max. size 151 x 65 x 101mm. Features fused cigarette-lighter socket (10A), zip-up cover, and internal fold-away protective flap.

- Battery can be medium/slow charged INSIDE THE BAG!



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6360	\$19.95	\$17.95	\$15.95

12 VOLT SLA BATTERIES



▲	Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
1.3Ah	97(L) x 43(D) x 57(H)mm	SB-2480	\$19.95	\$17.95	\$15.95
2.2Ah	178(L) x 34(D) x 66(H)mm	SB-2482	\$23.95	\$21.55	\$19.15
4.5Ah	90(L) x 70(D) x 106(H)mm	SB-2484	\$28.95	\$26.05	\$23.15
6.5Ah	150(L) x 65(D) x 93(H)mm	SB-2485	\$29.95	\$26.95	\$23.95

▲	Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
7.2Ah	151(L) x 65(D) x 93(H)mm	SB-2486	\$34.95	\$31.45	\$27.95
9Ah	150(L) x 65(D) x 93(H)mm	SB-2487	\$44.95	\$40.45	\$35.95
12Ah	150(L) x 100(D) x 93(H)mm	SB-2489	\$56.95	\$50.95	\$45.45
18Ah	181(L) x 77(D) x 167(H)mm	SB-2490	\$79.95	\$71.95	\$63.95

DEEP-CYCLE GEL CELL BATTERIES

12V Deep Cycle SLA Batteries

SB-1699
12V 38AhSB-1698
12V 26AhSB-1695
12V 100Ah

These genuine deep-cycle batteries add to our already substantial range of batteries. As with all gel cells, they can be operated and charged in any position, are leakproof and completely sealed. Gel batteries are ideal for solar power, camping, 4WD, auxiliary applications and anywhere deep discharge and recovery is required.



Check with our call centre for freight rates if you are a long way from our warehouse. (SYDNEY)

SPECIFICATIONS	SB-1698	SB-1699	SB-1695
Nominal voltage	12V	12V	12V
Nominal capacity	20 hour rate 26Ah	20 hour rate 38.8Ah	20 hour rate 100Ah
Capacity at 0°C	85%	86%	86%
Self discharge at 3 months	91%	91%	91%
Max discharge (5 sec.)			
Dimensions W x D x H mm	165 x 172 x 110	197 x 165 x 170	330 x 173 x 223
Weight	8.35kg	13kg	31.5kg
Special Order	NO	NO	YES

▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
12V 26Ah	SB-1698	\$129.00	\$115.95	\$102.95
12V 38Ah	SB-1699	\$199.00	\$178.95	\$158.95
12V 100Ah	SB-1695	\$349.00	\$309.00	\$279.00

12V Deep Cycle AGM Batteries

SB-1680
12V 75AhSB-1682
12V 100AhSB-1684
12V 150AhNEW
2017

This product has an absorbent glass mat embedded in the structure of the plates. (There are 6 sets of plates, each 2.0V which makes up a "battery" of plates, i.e. 12V). The mat does two things. It reinforces the lead frame of each plate, or cell, and it stops the plates from buckling under heavy discharge current. By helping make the innards of the battery virtually solid, you can mount it in any position, but it is still preferable, of course, to mount the battery upright, even for the sake of convenience of terminal access. They are an excellent product.

Note: It is important to not discharge an AGM more than 60% between recharge.

Note: 150Ah not stocked at all stores but can be ordered

SPECIFICATIONS	SB-1680	SB-1682	SB-1684
Nominal voltage	12V	12V	12V
Capacity at 0°C	20 hour rate 75Ah	20 hour rate 100Ah	20 hour rate 150Ah
Self discharge at 3 months	86%	91%	91%
Max discharge (5 sec.)	1,125A	1,500A	2,250A
Dimensions W x D x H mm	260 x 168 x 211	330 x 172 x 217	485 x 170 x 240
Weight	20.5kg	28.4kg	40.2kg
Special Order	No	No	Yes

▲ Type	Cat.	Qty 1+	Qty 4+
12V 75Ah	SB-1680	\$249.00	\$219.00
12V 100Ah	SB-1682	\$299.00	\$269.00
12V 150Ah	SB-1684	\$449.00	\$399.00

12V 150Ah Sleek AGM Deep Cycle Battery

This high performance deep cycle AGM battery offers an excellent power storage solution to those with minimal space. A high energy density and top grade materials allow such a high capacity of 150Ah to be packed into such a small footprint - just 123 x 556mm, suitable to fit into a standard 23" rack. Front terminal access makes battery connections neat and simple, and the durable carry handles allow for easier handling and inspection. Designed to perform in harsh tropical conditions, and with a superior high rate discharge performance and higher cycle service life, this battery is perfect for a wide array of applications including remote solar systems, caravan and RV, motor home, and marine. With a float voltage of 13.5V, this AGM battery is perfectly suited to caravans to make the most of charging off the engine alternator. See our website for a full specification datasheet.



- Small footprint to suit installations in tight areas such as marine, caravans or motor homes
- Design Float life of 12+ years in accordance with Eurobat classification of long life battery
- Suitable for standard 23" rack
- Advanced AGM (absorbed glass matt) separator offering longer service life and superior high rate discharge performance
- Threaded post copper insert terminals offering high conductivity
- Fire retardant container and cover (UL40 - VO)
- Compliant to IEC 60896-21/22:2004 and UL approved



Note: Not stocked at stores but can be ordered.

SPECIFICATIONS	SB-1822
Voltage	12V
Float voltage	13.5V
Boost voltage	13.8V
Capacity	150Ah (10hr rate), 165Ah (20hr rate)
Self-discharge	< 1% per week
Shelf life without re-charge	Up to 6 months
Operating temperature	-40°C to 60°C
Designs float life	12+ years at 27°C
Design cycle life	1800+ cycles @20%DOD, 900+ cycles @50%DOD, 500+ cycles @80%DOD
Dimensions	123(W) x 556(D) x 296(H)mm
Weight	52kg

▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
12V 150Ah	SB-1822	\$839.00	\$749.00	\$669.00

Powerstack High Performance VRLA Battery Banks with Racking

Able to withstand deep discharge to 0% capacity for 1000 cycles, the Powerstack battery banks are the last word in genuine deep-cycle technology ensuring long service life. The modular, stackable rack design enables easy installation and offers complete flexibility for future system expansion.

Each Powerstack comes fully loaded with six 2V deep cycle valve regulated lead acid (VRLA) cells, and includes interconnecting busbars to connect up each cell to make the 12V bank. The construction of each cell is flame retardant copolymer casing with lead coated copper conductor terminals, the racking is steel painted in acid resistant paint, and all parts can be recycled. Suitable for mining, defence, UPS backup, transmission, telephony as well as high end alternative energy systems and remote area power systems. Due to the size and weight of these very specialised units they will only be available for dispatch direct from our central warehouse in Sydney and Auckland. Freight will be additional - contact us for a quotation.

See our website for full specifications and downloadable datasheets.

- Modular stackable design
- Cycle life: 4000 cycles at 20% discharge, 1000 cycles at 100% discharge
- Self discharge: Less than 1% per week
- Design life: 20 years



Note: Not stocked at stores but can be ordered.

SPECIFICATIONS	SB-1800	SB-1802
Type	Valve Regulated Lead Acid deep-cycle battery	Valve Regulated Lead Acid deep-cycle battery
Rating	12V 600Ah	12V 1350Ah
Ah efficiency	>90%	>90%
Charging voltage	2.23 - 2.3V per cell	2.23 - 2.3V per cell
Charging current	60 - 120A	135 - 270A
Bank dimensions	706(W) x 477(H) x 550(D)mm	706(W) x 802(H) x 550(D)mm
Bank weight	260kg	530kg

▲ Type	Cat.	Qty 1+	Qty 2+	Qty 4+
12V 600Ah	SB-1800	\$2,999.00	\$2,699.00	\$2,399.00
12V 1350Ah	SB-1802	\$7,229.00	\$6,499.00	\$5,779.00

BATTERY MANAGEMENT

Digital DC Power Meters

An ideal addition to any low voltage DC system this digital power meter features real time display of the voltage, current draw, and power consumption. Once running it also stores minimum and maximum voltage, current, and power, together with cumulative amp hours and watt hours consumed by the connected equipment. Suitable for DC systems from 5 to 60 volts and available in two versions for inline connection or remote connection with a separate current shunt. Both meters are mountable using the included snap-in bracket or magnetically on any ferrous surface and can be connected to a PC using the MS-6174 USB data adaptor (sold separately).

Measurement Specifications:

- Voltage Range: 5-60VDC (0-60VDC with external DC power source)
- Operating current: 12mA peak
- Wattage Range: 0-12,000W
- Dimensions: 45(W) x 41(L) x 23(D)mm

Logging Specifications:

- Cycle Time: 3 minutes
- Maximum Amp Hours: 99,999Ah
- Maximum Kilowatt Hours: 9,999.9kWh
- Maximum Cumulative Log Time: 75 hours
- Data download: Stored data can be transferred to PC using MS-6174 data adaptor (sold separately)



DIGITAL DC POWER METER WITH INTERNAL SHUNT

- Continuous Current Range: 0-20A
- Peak Current: 30A for 30 minutes

MS-6170

DIGITAL DC POWER METER TO SUIT 50MV EXTERNAL SHUNT

- Current Range: 0-200A depending on shunt
- Suitable DC shunts: QP-5412 50A 50mV, QP-5415 100A 50mV, QP-5417 200A 50mV

MS-6172

USB DATA ADAPTOR FOR DC POWER METERS

Enhance the data collection of the MS-6170 or MS-6172 DC power meter by connecting to your PC with this USB data adaptor. The included software allows you to access live data and download stored data from the power meter memory. Data is graphed to show power usage over time and can then be exported for further analysis and logging over long periods. Pack includes data interface module, data cable, USB cable, and PC software.

- Data module dimensions: 45(L) x 35(W) x 18(H)mm

MS-6174



▲ Current Range	Cat.	Qty 1+	Qty 4+	Qty 10+
0 - 20A	MS-6170	\$89.95	\$80.95	\$71.95
0 - 200A	MS-6172	\$89.95	\$80.95	\$71.95
USB Data Adaptor	MS-6174	\$99.95	\$89.95	\$79.95

Battery Discharge Protector

Protects your car battery from total discharge by switching off appliances such as fridges and TV sets before the battery voltage drops to an unrecoverable level. When battery voltage is re-established by recharging, it switches appliances on automatically. The interrupting voltage is adjustable from 10.4 to 13.3VDC.

Essential low-cost insurance if you have a dual battery setup in a boat, 4WD, RV or for an alternative energy system such as solar or wind power.



SPECIFICATIONS	AA-0262
Operating voltage	12VDC
Max. switching current	20A
Interrupting voltage	10.4 - 13.3VDC
Resetting voltage	approx. 0.8V (+/-0.3V) above interrupt voltage
Current consumption	< 0.7mA when OFF, < 1.6mA when ON
Dimensions	87(L) x 60(W) x 32(H)mm



▲	12VDC	20A	Cat.	Qty 1+	Qty 3+	Qty 6+
			AA-0262	\$44.95	\$40.45	\$35.95

Lead-Acid Battery Conditioner

Removes or reduces sulphation which kills batteries. When wet-cell lead-acid batteries are allowed to sit around they will sulphate up in as short a time as 6 months. The sulphate builds up on the plates and separators. This product basically dissolves the sulphation. The product is so good that the manufacturer will extend the warranty on a new battery by a year if used when the battery is new.

- One bottle will do up to an N70Z size batteries (4WD, boat, truck etc)



▲	92ml	Cat.	Qty 1+	Qty 4+	Qty 10+
		NA-1420	\$10.95	\$9.85	\$8.75

Battery Terminal Fuses

These terminal fuses provide easy and economical circuit protection. They are ideal to use as circuit protection for your DC electrical system or battery banks. They are available in 3 current ratings from 50, 100, and 200amps. They feature a clear transparent housing to provide visual indication of blown condition.



SPECIFICATIONS	ALL MODELS
Rating	58VDC
Material	Ceramic body
Mounting hole	8.3mm
Dimensions	24(H) x 20(W) x 11(D)mm



▲		Cat.	Qty 1+	Qty 10+	Qty 25+
	50A	SF-4180	\$5.95	\$5.50	\$4.75
	100A	SF-4182	\$5.95	\$5.50	\$4.75
	200A	SF-4184	\$5.95	\$5.50	\$4.75

BATTERY MAINTENANCE

TECH TALK



Periodic visual inspection of the battery is recommended. If the battery is stored for over six months, it is recommended to charge and discharge the battery several times to recover the battery capacity, failure to do so may result in a loss of capacity and shorter battery life.

Bear in mind that self-discharge has to be taken into consideration when storing a charged battery. The remaining battery capacity should be at least 50% after a month of storage at room temperature for a fully charged battery. High storage temperatures will accelerate the self-discharge, and reduce the remaining capacity.

FIND OUT MORE IN STORE

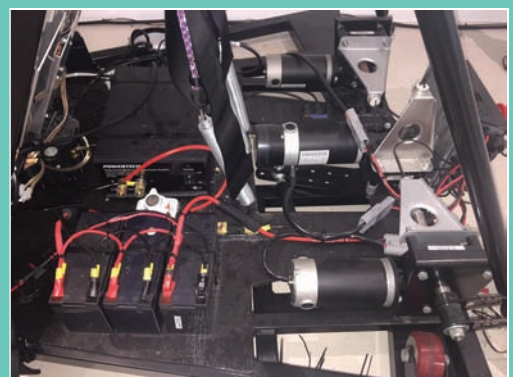
Our staff offer friendly and helpful service.

SHOW US YOUR BUILD COMPETITION

Richard, who shops at our Jaycar Glenfield store built:



This is my DIY motion racing simulator. It is using a Jaycar Powertech 13.8V PSU to charge a battery bank of 3 9AH batteries. This then goes to a controller box with 3 motor controllers which control 3 DC worm drive motors that gives the motion. All connectors, wires and isolators are from Jaycar



BATTERY BOXES, TRAYS & CLAMPS

Battery Boxes



Note: Battery not included

Protect your batteries with these sturdy boxes. Perfect for mounting in your boat, trailer or caravan. Includes mounting clamps and lid strap to secure the box properly in place.

Two models available:

HB-8100 - Battery box to suit 40Ah SLA batteries

• Dimensions: Internal: 260(L) x 180(W) x 200(H)mm

HB-8102 - Battery box to suit 100Ah SLA batteries

• Dimensions: Internal: 380(L) x 200(H) x 205(W)mm

▲ External Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
365 x 270 x 265mm	HB-8100	\$29.95	\$26.95	\$23.95
460 x 265 x 260mm	HB-8102	\$39.95	\$35.95	\$31.95

Heavy Duty Steel Battery Trays

These battery trays are pressed out of 1.2mm mild steel & vinyl coated to protect from acids, oils etc. They feature cruciform slots in the base to facilitate existing mounting holes in a truck or car chassis, as well as slots to allow battery hold-down rods.

Two sizes available:

Note: Not recommended for marine salt water use.



HB-8104

▲ Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
Small - 280(L) x 200(W) x 45(H)mm	HB-8104	\$12.95	\$11.35	\$10.35
Large - 340(L) x 200(W) x 45(H)mm	HB-8106	\$13.95	\$12.35	\$10.95

Battery Box with Power Accessories

No longer do you have to take a bird's nest of wiring and connections for your deep cycle battery when you go camping; this extremely handy battery box has all the common connections you would typically need, along with a convenient carry handle. Just fit your 100Ah deep cycle battery into the box, connect up the positive and negative wires, and you are ready to go. Features an LED voltmeter to help monitor battery level, two high current marine grade cigarette power sockets, and high current bolt terminals to connect your higher current loads such as an inverter. Over current protection included for the cigarette sockets.

• Dimensions: Internal: 355 x 220 x 290mm



Note: Battery not included



1
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WARRANTY

▲ External Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
420 x 240 x 310mm	HB-8500	\$109.00	\$97.95	\$86.95

Adjustable Universal Battery Hold Down Clamp

Universal battery clamp which adjusts to suit batteries ranging from 135-190mm width and 150-230mm height.

• Metal construction with wing nut adjustments

Note: Battery not included



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HC-4039	\$9.95	\$8.75	\$7.75

BATTERY TERMINALS

Universal Brass Battery Terminals

These heavy duty, solderless range of Marine grade brass plated zinc battery terminals have got you connected. With five options available from universal saddle, lug bolt style, side barrel, end entry and not forgetting the built in isolating switch perfect for isolating your battery to prevent battery drain when not in use. Sold in Pairs, POS - NEG, HC-4038 isolation type sold singular (Negative post only)



▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Saddle Pair	HC-4030	\$9.95	\$8.75	\$7.75
Lug Bolt Style Pair	HC-4034	\$9.95	\$8.75	\$7.75
Isolating (Negative Post) Each	HC-4038	\$9.95	\$8.75	\$7.75

Gold Plated Battery Terminals

This terminal is made from brass, and is gold plated. It has a 6mm bolt, and wing nut on which our gold terminals can be connected to run cabling to equipment.

• Suits positive car battery terminals

AMP-KING

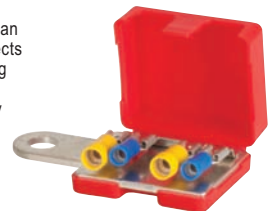


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HC-4040	\$9.95	\$8.75	\$7.75

Multi-Connect Battery Terminal - Red

This Multi-Connection Battery Terminal can be used to terminate up to 4 electronic devices. It can also be used separately as a bus-bar that connects to multiple devices. Perfect for simplify the wiring in the car, surveillance or security system and other 12V applications where multiple accessory wiring is needed.

• Terminates up to 4 electronic devices
• Red colour for positive connections
• Does not need screws
• Spade terminals included
• Dimensions: 75(L) x 40(W) x 20(H)mm



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
12V	HM-3089	\$9.95	\$8.75	\$7.75

4 Wire 2G + 4G + 2x8G Battery Terminals

These 4 wire gold battery terminals will accept one 2GA, 4GA cables and two 8G cables. These units come complete with clear cover.

• NOTE: Cable not included

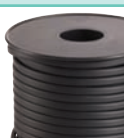


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WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Positive	HC-4048	\$19.95	\$17.95	\$15.95
Negative	HC-4049	\$19.95	\$17.95	\$15.95

RELATED PRODUCTS

FROM
\$1.40 per metre
WH-3057



2 CORE DC POWER CABLE P162

FROM
\$8.95
TH-1828



CRIMPING TOOLS P210

FROM
\$12.95
NA-1200



HAND PROTECTION LOTION P183

FROM
\$84.95
QP-2261



BATTERY TESTER P54

BATTERY DISCONNECTS & ACCESSORIES

Battery Isolation Switches

High current rated battery isolation switches for high power applications. Often fitted to boats, trucks, motor homes and other battery based power systems to allow for quick and easy electrical isolation of the battery for protection against discharge, fire and other safety risks. Each switch features high quality construction with large bolt-down terminals for electrical connection.

HIGH QUALITY 120A

- Large removable key actuator
- Continuous rating: 120A @ 12V
- Surge rating: 500A, 60mm diameter mounting plate

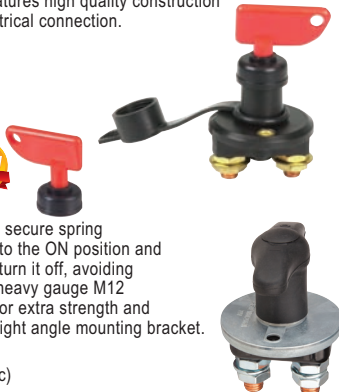
SPARE KEY TO SUIT SF-2245 SF-2244

NEW
2017

PROFESSIONAL 500A

The switch handle features a tight and secure spring loaded actuation, locking the switch into the ON position and requiring you to pull the handle out to turn it off, avoiding accidental battery isolation. Features heavy gauge M12 brass bolt terminals, cast metal body for extra strength and durability, and is also supplied with a right angle mounting bracket.

- Continuous rating (6-48VDC): 500A
- Max rating (6-48VDC): 2000A (10 sec)
- Dimensions: 70(D) x 100(H)mm



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	12V 120A	SF-2245	\$17.95	\$15.95	\$14.35
	Spare Key to suit SF-2245	NEW SF-2244	\$9.95	\$8.95	\$7.95
	12V 500A	SF-2247	\$59.95	\$53.95	\$47.90

Battery Switch with Enclosure

Simple 2 position battery switch for controlling battery power on your boat, caravan, or other high current battery system. The 2-position version is a simple on/off turn switch.

- Durable design, with large indented grips that won't slip under wet hands

SPECIFICATIONS	SF-2246
Continuous rating	275A
Intermittent rating	455A
Operation	On/Off
Operating range	8-50VDC
Stud size	2x10mm
Dimensions	75(H) x 72(W) x 72(L)mm



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	2 Position	SF-2246	\$39.95	\$35.95	\$31.95

Battery Isolator Switches with AFD

The switches themselves are very durable and rated for massive output. They feature removable windows on all four sides to cater for whatever cabling arrangement you have. Alternator Field Disconnect (AFD) protects your alternator when switching batteries in and out of the circuit. By disconnecting the alternator moments before the battery (moments after when re-engaging), there's always a load on the alternator to protect the regulation circuitry.

Two models available:

SPECIFICATIONS	SF-2249	SF-2250
Max Rated Voltage	48VDC	48VDC
Continuous Current	275A	200A
Surge Current (5min)	455A	300A
Cranking Current (10sec)	1250A	1000A

NEW
2017



SF-2249

▲		Cat.	Qty 1+	Qty 2+	Qty 4+
	275A Battery - On/Off	SF-2249	\$39.95	\$35.95	\$31.95
	200A Dual Battery - 1/2/Both/Off	SF-2250	\$49.95	\$44.95	\$39.95

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WARRANTY

DISCOUNT TRADE CARD

If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to substantial discounts on most Jaycar products.



Discounts range from 5% to 30% depending on the type & quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

120A 12/24VDC Programmable Dual Battery Isolator

This 120A 12/24VDC Programmable Dual Battery Isolator can be fine tuned to meet your vehicle's specific application. Often the alternator, main battery, house battery and load change with time, so this device allows you to fine tune key voltages and delay time set points, and constantly monitors each battery to ensure the optimum charging current. The reliable and efficient MOSFET switching circuitry has very little voltage loss, which results in much less generated heat compared to diode based isolators.

- Ignition Control
- N.O & N.C contacts
- Manual Override mode
- Programmable parameters:

Connect Voltage: 9.2 - 16VDC/18.4 - 32VDC
Isolate Voltage: 9 - 15.8VDC/18 - 31.6VDC
Alert Voltage: 9 - 15.9VDC/18 - 31.8VDC
Connect/Isolate/Alert Delay: 1 - 250 seconds



NEW
LOW
PRICE
1
YEAR
WARRANTY

SPECIFICATIONS	MB-3688
Operating Voltage	9 - 17VDC/18 - 34VDC
Continuous Contact Current	120Amp
Dimensions	90(L) x 90(W) x 85(H)mm, 0.6kg

▲		Cat.	Qty 1+
	12/24V 120A	MB-3688	\$149.00

125A Dual Battery Isolator (VSR)

A voltage sensitive relay (VSR) is the best way to ensure you can always get your dual-battery vehicle started. If the radio stops working that's one thing, but if you're stranded because your car cannot start because you ran your fridge for too long, that's potentially a life and death scenario. It allows two batteries to be charged from your alternator. Once your main starter battery is sufficiently charged, it will begin charging the second battery too. Fully automatic with emergency override.



NEW
2017

SPECIFICATIONS	MB-3687
Current Rating	125A
Voltage Rating	12VDC (15VDC Max)
Cut-In Voltage	13.7VDC
Cut-Out Voltage	12.8VDC

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YEAR
WARRANTY

▲		Cat.	Qty 1+	Qty 2+	Qty 4+
	12V 125A	MB-3687	\$49.95	\$44.95	\$39.95

12V 140A Dual Battery Isolator Kit with Wiring

Allows two batteries to be charged from your engine alternator at the same time. When your engine is on and the start battery is sufficiently charged the isolator kit will begin charging the second (auxiliary) battery simultaneously. When the voltage of the start battery drops (i.e. the engine is stopped) the isolator kit disengages from charging the auxiliary battery. This isolates the start battery and eliminates the possibility of draining it, ensuring that you always have enough charge to start your engine, and also protects sensitive electronic equipment powered from the auxiliary battery from harmful engine start-up spikes. Suitable for 12VDC Marine, 4WD, caravan and solar applications. Dual Battery Isolator available as a standalone unit - see MB-3685.

- Emergency override feature & LED status indicator

Kit Includes:

- 1 x Dual Battery Isolator with mounting screws
- 1 x 6 metre length of 10mm square red cable terminated at both ends
- 1 x 600mm black earth cable
- 2 x Positive Marine battery terminals
- 1 x Negative Marine battery terminal
- 1 x SC25-10 Copper crimp lug
- 2 x 16-8 Copper crimp lugs
- 2 x Red heat shrink
- 1 x Insulated blue ring terminal
- 6 x 200mm cable ties



MB-3685

MB-3686



SPECIFICATIONS	BOTH MODELS
Continuous rating	140A
Intermittent rating	170A
Voltage rating	12VDC (max 15VDC)
Cut in voltage	13.7VDC
Cut off voltage	12.8V
Isolator dimensions	67(L) x 67(W) x 53(H)mm

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YEAR
WARRANTY

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	VSR with Wiring Kit	MB-3686	\$159.00	\$142.95	\$126.95
	VSR without Wiring Kit	MB-3685	\$54.95		

BATTERY CHARGERS

12/24V DC to DC Battery Chargers

Ideal for 12V auxiliary battery charging. Includes an ignition line connection for automatic battery disconnection, can be programmed to provide the correct charging mode for a wide range of battery types. You don't need heavy connecting cables due to the buck boost feature, has reverse polarity and overload protection, all in neat easily mounted module. Has wide input voltage range which means you can charge your 12V battery from a 24V system.

NEW
20171
YEAR
WARRANTY

SPECIFICATIONS	MB-3684	MB-3689
Compatible Input Voltage	9-32VDC	9-32VDC
Maximum Charging Current	20A	30A
Charging Voltage	13.1 - 14.4VDC	13.1 - 14.4VDC
Weight	385g	385g
Dimensions	180(W) x 134(H) x 60(D)mm	180(W) x 134(H) x 60(D)mm

▲		Cat.	Qty 1+	Qty 2+	Qty 4+
12/24V	20A	MB-3684	\$279.00	\$249.00	\$219.00
12/24V	30A	MB-3689	\$339.00	\$299.00	\$269.00

12V 4 Stage 40A DC to DC Boost Charger

A significant voltage drop can occur in dual battery systems where the auxiliary battery is some distance from the main battery. A DC to DC boost charger the solution to that problem. This DC to DC boost charger is capable of taking an 8-16VDC input voltage, and giving a stable, regulated 13.8V/14.4V 4-stage charger output to give your auxiliary battery a full 100% charge. Even if the power is coming down a long cable and has suffered some voltage drop, this charger will boost the voltage back up. It can also be configured to work as a 13.8V power supply, again with the ability to boost voltage. Charge voltages are adjustable to suit different types of lead acid batteries via some DIP switches, and input/output connections are made with heavy duty terminals. Output current is rated at 40A to ensure a quick charge.



SPECIFICATIONS	MB-3690
Input voltage	8-16VDC
Output current	40A max
Bulk/absorb charge	14.6V, 14.8V selectable
Float charge	13.2V-13.8V selectable
Power supply mode	13.8VDC
Efficiency	85-90%
Weight	1.7kg
Dimensions	260(L) x 140(W) x 80(H)mm

1
YEAR
WARRANTY

▲		Cat.	Qty 1+	Qty 2+	Qty 4+
12V	40A	MB-3690	\$399.00	\$359.00	\$319.00

On-board Marine Battery Chargers

Advanced electronic and fully automatic multi-stage marine battery chargers that mount on-board your boat to charge the cranking and house batteries, once you connect to shore power. The multi-stage charging process delivers five modes of operation, including start-up diagnostics, charging, conditioning, auto maintenance and storage reconditioning of each battery. This process is proven to extend the life of your batteries and will fully charge your batteries each time you connect to AC power. The charger Distributed-On-Demand® charging technology will automatically sense and distribute 100% of the available charging output of 8, 12 (MB-3616), 15 or 20 amps (MB-3617) to any one battery or combination of all batteries. Each battery charger output is fully isolated.



MB-3616



MB-3617

NEW
20171
YEAR
WARRANTY

- Suits Flooded, Standard AGM, and GEL batteries
- Prewired with 1.8m leads for easy installation
- 100% Waterproof (IP67) and Saltwater tested
- Microprocessor controlled
- System OK & battery bank trouble status indicators
- Energy saver & storage recondition modes
- IP68
- Pulsing Output
- Max output: 6A/8A/12A (MB-3616) / 15A/20A (MB-3617)
- Multi-stage Charging: Analyse, Charging, Conditioning Auto Maintain (Sleep mode), Auto Maintain (Maintenance mode), Storage Recondition
- Overload, over voltage and over temperature protection
- Reverse Polarity Protection
- Ignition Protection
- LED display showing power, Charge, Charging/Conditioning/Auto Maintain, Battery type
- Flood & Standard AGM / high performance AGM/GEL, and System Check OK LED
- Dimensions: MB-3616: 250(W) x 185(H) x 70(D)mm, 1.8kg
MB-3617: 310(W) x 185(H) x 70(D)mm, 2.7kg

Due May 2017

▲		Cat.	Qty 1+	Qty 2+	Qty 4+
12/24V	12A Dual Battery	MB-3616	\$329.00	\$289.00	\$259.00
12/24/36V	20A Triple Battery	MB-3617	\$429.00	\$379.00	\$339.00

IN A HURRY? CLICK TO COLLECT!

Buy online, collect in-store!

To check if your local store offers "Click & Collect" visit: www.jaycar.com.au/store-finder

DC TO DC CONVERTERS EXPLAINED

The alternator in your car engine will typically produce 14+ volts to keep your starter motor battery topped up nicely.

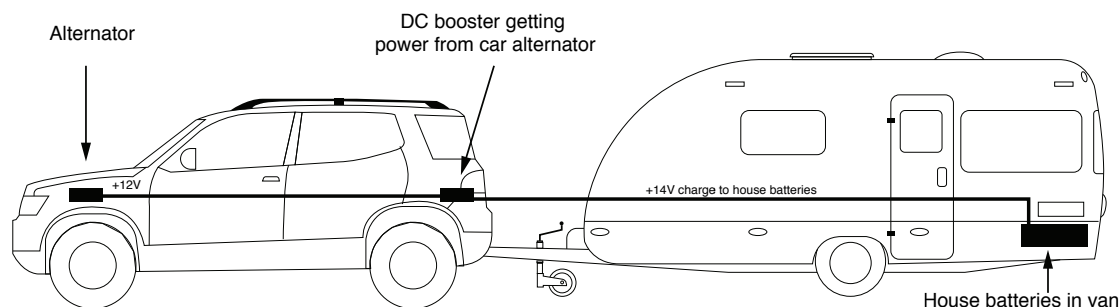
If you are towing a caravan or camper trailer you really need to keep those house batteries in tip-top condition, especially after a long tow. It's quite possible that your 'house' batteries are being drained inadvertently as you are driving along. You certainly do not want to get to your camping site at the end of the day with half flat house batteries!

Simply connecting a +12V wire from your car alternator to your house batteries will not do the job!

Due to the distance between your alternator, the trailer connector and the cable to your battery bank you will typically drop 2.0 volts along the way. There simply will not be enough 'juice' to charge up your house batteries.

What you need is a DC booster that lifts your nominal +12V alternator charge to a healthy +14.4 to +16.0 DC (max) to automatically give your house batteries the charge they need as you drive along. They are automatic chargers and will not overcharge or damage your precious cells.

You won't know what you did without one! They are shown on this page.



Keep your house batteries topped up on the run.

TECH TALK



BATTERY CHARGERS - LOW CURRENT

LOW CURRENT CHARGERS

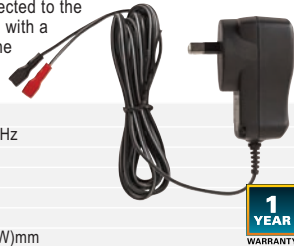
TECH TALK

Low current output designed to steadily recharge sealed lead acid (SLA) batteries without causing the battery to overheat and become a swollen mess. As a guideline the charger's current rating should be no more than 10 to 15% of the battery's ampere-hour rating.

12V-1000mA

This intelligent automatic battery charger stops charging when the battery is full and starts to maintain the battery with a 'floating' charge mode. The charger monitors the battery voltage and tops-up the battery to keep it fully charged all the time. This feature allows you to leave the charger connected to the battery without risk of overcharging. It comes with a LED indication for battery charging status. The 2m long cable includes an interchangeable DC plug and Alligator clips.

SPECIFICATIONS	MB-3619
Input	100-240VAC, 60/50Hz
Charging current	1000mA
Charging voltage	12.0VDC
Float output voltage	14.4VDC
Bulk charge mode voltage	14.0VDC
Dimensions	70(L) x 40(D) x 40(W)mm



▲	12V	1000mA	Cat.	Qty 1+	Qty 2+	Qty 4+
			MB-3619	\$19.95	\$17.95	\$15.95

WHEN IS A LEAD-ACID BATTERY DEAD?

TECH TALK

Lead acid battery technology has been around for about 150 years. The technology is as reliable as a sheep dog, BUT it has its limits. Lead Acid Batteries basically love work. The more you start something with them and then charge them up, the more they like it. They do, however, eventually die. If you leave them idle for a long time or leave them discharged without recharging, you can easily kill them.

The voltage difference between a good battery and a dead (or "dodgy") one is less than a volt! If you have a battery with a terminal voltage of 11.8V or less, it is probably history. You can try to recharge it, maybe add some INOX (page 48), but, really you won't be able to trust it.

BATTERY CHARGERS - HIGH CURRENT

6V & 12V, 8A Heavy Duty with Trickle Charge

This charger is suitable for both 6 and 12 volt car, boat, motorcycle and lawnmower batteries. Featuring 4-stage LED charge indicators, the charger can be switched between trickle or heavy duty charge rates and is recommended for casual, domestic charging tasks. The unit is housed inside a tough plastic case with carry handle, is double insulated and features overload and reverse battery protection. The battery leads are terminated to heavy duty alligator clips on a 1 metre length of cable.

- Complies with Australian Electrical Safety Regulations



▲	6V/12V	8A	Cat.	Qty 1+	Qty 2+	Qty 4+
			MB-3522	\$74.95	\$67.45	\$59.95

12V 10A Intelligent Switchmode 5 Stage Charger

A robust 12V battery charger packed with useful features to safely charge and maintain the life of your batteries. The front control panel allows you to control the battery type being charged (see below for supported types), the desired charge rate, the display mode (current, battery voltage, charge percentage). It will also indicate if there is a battery fault or if the polarity is reversed in which case the charging will immediately stop to protect the battery. Features positive/negative fly leads with clips that are neatly tucked away into a compartment at the rear of the unit.

- Short circuit & Overheat protection
- Voltage compensation
- Polarity reversal protection
- Fan cooled
- Faulty battery indicator
- Charging current: 2A (Low), 6A (Normal), 10A (High)
- Input voltage: 220VAC-240VAC
- Supported battery types: WET/Flooded, GEL, AGM, MF, VRLA rechargeable batteries
- Dimensions: 230(H) x 170(W) x 140(D)mm



▲	12V	10A	Cat.	Qty 1+	Qty 2+	Qty 4+
			MB-3625	\$139.00	\$124.95	\$110.95

2, 6 & 12V 600mA

This fully automatic charger will charge 2V, 6V, and 12V sealed, and standard (car) lead-acid batteries. When the battery is completely charged, the current is automatically reduced to prevent overcharging.

- 600mA charging current
- Short circuit and wrong polarity protected
- Constant charging current
- No charge if battery connected incorrectly
- LED's show charging state

Output lead has battery clips for easy charging. Ideal to trickle charge your car battery while on holidays or keep those SLA batteries charged and in tip top condition.



▲	2V/6V/12V 600mA	Approval No.	Cat.	Qty 1+	Qty 2+	Qty 4+
		N19029	MB-3518	\$29.95	\$26.95	\$23.95

6, 12 & 24V 1.2A Automatic

This switchmode SLA battery charger has an automatic function that cuts the charging current to near zero once the battery is charged, whilst still continuing to monitor battery voltage. Works with 6V, 12V or 24V SLA batteries, and automatically detects the battery voltage ensuring you don't make any mistakes - just connect the charger and it starts automatically. LED indicator shows charging state, with connections made by alligator clips.

- 6V, 12V and 24V charging
- Short circuit & reverse polarity protection
- Automatic cut-out and voltage detection
- Will not charge a completely flat battery
- Dimensions: 100(L) x 45(W) x 20(D)mm



▲	6V/12V/24V	1.2A	Cat.	Qty 1+	Qty 2+	Qty 4+
			MB-3527	\$39.95	\$35.95	\$31.95

See page 499 for our range of Jump Starters

6V/12V/24V 15A Intelligent Battery Charger

An intelligent battery charger suitable for flooded and gel lead acid batteries including deep cycle batteries at 6V, 12V or 24V. The microprocessor controlled unit provides 4 stages of charging, Soft Start, Bulk Charge, Absorption and Float which assists in the batteries life expectancy and performance. An auto detection feature provides a user friendly experience, which can be pre-programmed or manually set for greater control. Should a blackout occur or AC input power be lost during a charging operation the memory function will resume charging once power is re-established. Other features include temperature/voltage compensation, reverse polarity/short circuit protection and a battery status indicator. Ideal for cars, motorcycles, caravans and boats with battery capacities between 20-200Ah. It's also ultra-portable with a handy storage pocket in the back for the leads.

- Memory function
- Temperature controlled fan
- LED battery status display
- Temperature and voltage compensation

Protection:

- Anti spark
- Reverse polarity
- Short circuit
- Over heating/current/voltage



SPECIFICATIONS	MB-3623
Input	220 - 240VAC, 2.5A
Output	15A @ 12V, 7A @12V/24V, 2A @ 6V/12V/24V
Dimensions	230(H) x 170(W) x 140(D)mm

▲	6V/12V/24V	15A	Cat.	Qty 1+	Qty 2+	Qty 4+
			MB-3623	\$159.00	\$142.95	\$126.95



HIGH CURRENT CHARGERS

TECH TALK

Higher current chargers steadily recharge larger lead acid batteries such as car, marine or high capacity deep cycle batteries. Available in simple models which need to be monitored manually ie. disconnected when the battery is fully charged, and automated models which monitor battery condition. Automated models have higher charge rates and improve battery life as their control systems prevent overcharging. Jaycar does not stock simple chargers, only automatic types.

SWITCHMODE MULTI-STATE BATTERY CHARGERS

High tech SLA battery chargers for automotive, marine, motorcycle, workshop or industrial use. All feature switchmode operation, multi-stage maintenance and charging, near-bulletproof performance & microprocessor control. All are IP rated for use in workshop and hostile environments.

- Short circuit & reverse polarity protection
- Dust & splash proof - most are IP65 rated
- Anti-spark protection

6/12VDC 1.5A 3 Stage Battery Charger

3 stage set and forget maintenance charger. Automatically diagnoses and recharges 6 or 12V lead acid, gel and AGM rechargeable batteries for boats, motorcycles etc. This little unit packs a real punch with 1.5A maximum charging power for faster recharging. Maintains your battery for months and extends battery life by constantly monitoring battery condition for bulk, trickle or maintenance charges accordingly.

SPECIFICATIONS	MB-3609
Output voltage	7.2, 14.2VDC
Charging current	1.5A max
Efficiency	>75%
Back current drain	<35mA
Capacity	6 - 20Ah
Dimensions	110(L) x 58(W) x 46(D)mm



▲	6/12VDC	1.5A	Cat. MB-3609	Qty 1+	Qty 2+	Qty 4+
				\$49.95	\$44.90	\$39.90

12V-7.2A/24V-3.6A 9 State Charger

The bigger brother of MB-3611, this is a fully automatic 9 state charger for 12 or 24V sealed lead acid batteries- wet cell, gel cell and AGM.

Advanced diagnostics enable this unit to maximise charge rate while also maximising battery life. You can also switch it onto power supply mode where it will act as a 13.8V and up to 5A power supply, useful in supplying power to computer systems of many modern cars when replacing batteries.

SPECIFICATIONS	MB-3613
Input voltage	220 - 240VAC
Output voltage	5-14.7V (12V battery), 10-29.4V (24V battery)
Input current	5A @ 220VAC
Charging current	12V - 7.2A, 24V - 3.6A
Efficiency	>75%
Ripple	≤150mV
Back current drain	≤1.2mA
Rated	IP65
Dimensions	210(L) x 90(W) x 60(D)mm



▲	12/24VDC	7.2A/3.6A	Cat. MB-3613	Qty 1+	Qty 2+	Qty 4+
				\$169.00	\$151.95	\$134.95

MULTI STATE CHARGER

TECH TALK



All-in-one chargers which have multiple charge settings to suit different sized batteries and charging requirements. Capable of recharging the battery and maintaining the charge state indefinitely, they are particularly well suited to being continuously connected to a battery. Some models also have additional functions such as rapid boost charging and can also be used as a general purpose high current power supply.

6/12VDC 4A 4 State Charger

This smart charger uses a microprocessor to diagnose the batteries state of charge, providing the correct charging mode, eventually switching to float/maintenance charge to keep the battery at full charge and eliminate battery sulphation. Suitable for all types of SLA batteries-wet cell, gel cell and AGM ranging from 5Ah to 120Ah. This charger has pre charge mode to identify sulphated batteries and pre charge at low current for a period before automatically switching to high current to extend your batteries working life.

- 4A max at 12V/1A max at 6V

SPECIFICATIONS	MB-3611
Charge modes	Pre-charge, Constant current, Constant voltage, Float charge
Ripple	≤120mV
Back current drain	≤1.2mA
Dimensions	200(L) x 70(W) x 50(D)mm



▲	6/12VDC	4A	Cat. MB-3611	Qty 1+	Qty 2+	Qty 4+
				\$89.95	\$80.95	\$71.95

BATTERY CHARGERS

COMPARISON GUIDE

		Output Voltage(s)	Max Output Current	Multi Stage	IP65 Rated	Power Supply Mode	Page
MB-3619		12VDC	1A				52
MB-3518		2/6/12VDC	600mA				52
MB-3527		6/12/24VDC	1.2A				52
MB-3522		6/12VDC	6.8A / 5.4A	4			52
MB-3625		12VDC	10A	5			52
MB-3623		6/12/24VDC	2A / 15A / 7A	4			52
MB-3609		6/12VDC	1.5A	3			53
MB-3611		6/12VDC	1A / 4A	4	●		53
MB-3613		12/24VDC	7.2A / 3.6A	9	●		53
MB-3607		12/24VDC	15A / 7.5A	9	●	●	54
MB-3710		12VDC	15A	4		●	54

MULTI-STATE BATTERY CHARGERS (CONTINUED)

12V-15A/24V-7.5A 9-State

Nine step fully automatic 15 amp high current charger with maintenance charging of all types of SLA batteries as well as lead-calcium batteries from 50 - 250Ah, and either 12V or 24V. The electronics are fully microprocessor controlled and protected against user error, so is totally safe to leave connected for months at a time. This charger will also charge in sub-zero temperatures, will recover sulphated batteries and can be used as a 10A power supply. Also features "boost" modes to recover deeply discharged batteries. The battery output lead has a temperature sensor to automatically compensate charging voltage dependant on temperature, so no matter what the conditions, you will get a full charge into your battery. The output lead is also fitted with Anderson connectors to allow for easy connection to existing wiring or use of the included alligator clips or bolt terminals.

- Short circuit and reverse polarity protection
- Anti-spark protection
- IP65 outdoor rated
- Standby, fault, mode selection & charging LEDs
- Mounting feet for wall mounting
- Safe to leave connected for months at a time

SPECIFICATIONS	MB-3607
Input voltage	220 - 240VAC
Output voltage	12 or 24VDC
Input current	2A max
Charging current	12V-15A, 24V-7.5A, 12V-Calcium-5A
Efficiency	>75%
Ripple	150mV, 300mA max
Back current drain	<5mA
Rating	IP65
Dimensions	260(L) x 135(W) x 70(H)mm



3
YEAR
WARRANTY

▲	12V/24V	15A/7.5A	Cat.	Qty 1+	Qty 2+	Qty 4+
			MB-3607	\$349.00	\$309.00	\$279.00

12V 15A High Power 4-Stage Wall Mount 240V Battery Charger

Tough wall mounted high power battery charger designed to quickly recharge 12V lead-acid batteries (wet, sealed, AGM, etc) with a high level of efficiency and charge current. It features microprocessor controlled smart 4-stage charging to ensure battery life is maintained by monitoring and charging the batteries safely, resulting in a charger that is safe to leave connected indefinitely. Thanks to its auto-start feature, it's a fantastic choice for caravan, motorhome or marine applications. Output is fully electrically isolated, and the charger can even be set to operate as a regulated high current power supply. DIP switches allow you to select the charging voltage, and output is via heavy duty screw terminals.

SPECIFICATIONS	MB-3710 12V 15A
Input voltage	230VAC
Bulk/Absorption	14.2VDC / 14.6VDC / 14.8VDC
Float charging	13.2VDC / 13.5VDC / 13.8VDC
Output current (max)	15A
Advantage boost charging	Yes
Efficiency	up to 88%
Over charging protected	Max absorption time 6 hours
Output short circuit protected	Yes, with current limiting
LED Display	Green - Charger on, Green - Float, Yellow - Absorption, Red - Bulk
Operating temperature	0 - 40°C
Dimensions	205(L) x 130(W) x 70(D)mm



POWERTECH

1
YEAR
WARRANTY

▲	12V	15A	Cat.	Qty 1+	Qty 2+	Qty 4+
			MB-3710	\$269.00	\$239.00	\$209.00

BATTERY TESTER

12VDC Lead Acid Battery Tester

This battery tester quickly, easily, and accurately measures the actual cold cranking amps capability of the vehicle starting battery. It tests most automotive cranking lead acid batteries, including an ordinary lead acid battery, AGM flat plate battery, AGM spiral battery, and GEL battery, etc. It can identify a battery with bad cells, has reverse polarity protection, and meets major battery testing standards such as CCA, BCI, CA, MCA, JIS, DIN, IEC, EN, SAE, GB. The handy device features an LCD display to indicate the results, a menu tab and clips to connect the battery tester to the vehicle's battery.

- Voltage Measure Range: 6-30VDC
- Dimensions: 125(L) x 70(W) x 25(H)mm



Note: Battery not included

1
YEAR
WARRANTY

▲ Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	QP-2261	\$84.95	\$76.45	\$67.95

12-24V Battery Tester

A simple to use battery tester to check charge condition. Simply connect and read. Includes three different connector methods - battery clamps, eye terminals, and cigarette lighter socket. Suitable for 12 and 24V car batteries, sealed lead acid batteries, and other high-capacity batteries. Provides voltage reading as well as LED indication for under/overcharge. Reverse polarity protected. Note: cigarette lighter socket testing method may only be available with ignition on.

- Simple operation
- Versatile connections
- Under / overcharge indication
- Voltage Range: 11-17VDC / 22-30VDC
- Dimensions: 75(W) x 48(H) x 19(D)mm



NEW
2017

1
YEAR
WARRANTY

▲ Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
12/24VDC	QP-2263	\$24.95	\$22.45	\$19.95

MULTI STATE CHARGING STATES

TECH TALK

Charging states include: Battery test - Checks the battery to ensure it is ready for charging, polarity of leads etc.

DESULPHATION:

Detects sulfated batteries. Pulsing current and voltage, removes sulfate from the lead plates of the battery restoring the battery.

SOFT START:

Initial battery test to determine battery condition. If the battery is severely discharged, charger will begin the Soft Start stage. Charging starts with reduced current until battery voltage reaches a normal condition for charge.

BULK MODE:

Major charging stage where the battery receives the majority of its charge. During this stage the battery is charged to up to 80% capacity.

ABSORPTION MODE:

Completes the charge up to virtually 100% at a slower charge rate to protect the batteries working life.

RECONDITION MODE:

Select "Recondition" mode, charges at higher voltage to recondition the sulfate of the battery to save battery life.

ANALYSIS:


Tests if the battery can hold charge. Batteries that cannot hold charge may need to be replaced.

FLOAT:

Low constant voltage, minimal charge current, battery is fully charged.

PULSE MODE:

Maintaining the battery at 95-100% capacity. The charger monitors the battery voltage and gives a pulse when necessary to keep the battery fully charged.

BATTERY CHARGERS					COMPARISON GUIDE					
	MB-3514	MB-3549	MB-3563	MB-3561	MB-3551	MB-3632	MB-3638	MB-3639	MB-3635	MB-3637
										
12VDC		•		•	•	•		•	•	•
240VAC	•	•	•	•	•		•	•	•	•
Charges Ni-MH	•	•	•	•	•	•	•	•	•	•
Charges Ni-Cd	•	•	•	•	•	•	•	•	•	•
Charges Li-ion						•	•	•	•	•
Charges Li-Po						•	•		•	•
Charges AAA	•	•	•	•	•			•	•	•
Charges AA	•	•	•	•	•			•	•	•
Charges C	•								•	
Charges D	•								•	
Charges 9V	•				•			•		•
USB Outlets							•	•		
Fast Charge				•					•	
Discharges					•					
Page Number	55	55	55	55	55	56	56	56	56	56

AAA, AA & 9V BATTERY CHARGERS

Universal Ni-Cd/Ni-MH Battery Charger With Cut-Off

An affordable universal battery charger that will re-charge Ni-MH/Ni-Cd batteries in AA, AAA, C, D as well as 9V. It will also ensure long battery life by cutting-off the voltage when they are fully charged. The unit can charge in various configurations, for example 2 x 9V and 4 x AA batteries simultaneously.

- Recharges: AAA, AA, C, D and 9V batteries
- Cut-off function
- Accepts various combinations of batteries
- Dimensions: 199(L) x 100(W) x 46(H)mm

Note: Batteries not included



Batteries must be charged in pairs excluding 9V.



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB-3514	\$24.95	\$22.35	\$19.70

2 Hour Fast Charger For AA/AAA Ni-MH Batteries

Recharge up to four AA or AAA Ni-MH batteries. This handy charger, which utilises Delta V voltage detection, charges batteries to their optimal level to ensure long life. Charge state can be monitored on the integrated electric blue LCD. Charge on the go with the car cigarette lighter cord included as well as the mains plugpack.

- Easy to read and backlit LCD
- Includes bad cell detection
- Charge at the home, office or on the road
- Delta V detection and cut-off
- 1150mA charging current for AA batteries
- 600mA charging current for AAA batteries
- Supplied with mains plugpack and car charging cable
- Dimensions: 105(L) x 68(W) x 30(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB-3549	\$29.95	\$26.95	\$23.95

Ni-Cd & Ni-MH BATTERIES

Learn more about using and charging Ni-Cd and Ni-MH batteries. Read our primers at www.jaycar.com.au/primers

Panasonic Ni-MH Battery Charger with 4 Eneloop Batteries

Charges both AA and AAA batteries and includes 4 x AA pre-charged Eneloop batteries. Eneloop batteries are ready for action straight from the shelf as they discharge at an extremely low rate. They can be recharged approximately 1,800 times (compared to approx 500 times for a regular rechargeable).

- Plug-in style wall charger (240V)
- Approx. 10 hour charge time
- Includes 4 x AA Eneloop 2,000mAh batteries
- Dimensions: 75(W) x 118(H) x 40(D)mm



Batteries included



▲	Cat.	Qty 1+
	MB-3563	\$42.95

60 Minute Fast Charger with USB Port

Recharge up to 4 x AA or AAA Ni-MH batteries fast with this handy charger. Using Delta -V voltage detection, 4 individual channels and an auto cut-off safety timer. Also features LED indicators that show the charging status for each channel. Loaded with a USB port capable of 2.1A, great for charging digital cameras, GPS, Smartphones, iPhones® or iPads® and tablets. 240VAC adaptor and a 12VDC adaptor.

- Suitable for 1-4 AA or AAA batteries
- Charge current 2000mA for AA, 850mA for AAA
- Dimensions: 114(L) x 75(W) x 30(D)mm



Batteries not included

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB-3561	\$49.95	\$44.90	\$39.90

12VDC & 240VAC Smart Battery Charger Ni-Cd & Ni-MH

Accepts a combination up to 10 x AA or AAA cells and 2 x 9 volt batteries. The integrated discharger can fully flatten the battery before charging to help minimise memory effects. Uses Delta V sensing to achieve the maximum charge. Charging timer protects against overcharging & individual LEDs show battery status.

- Charges up to 10 AA or AAA batteries
- Mains power adaptor supplied
- Dimensions: 220(W) x 40(H) x 115(D)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	MB-3551	\$59.95	\$53.95	\$47.90

BATTERY CHARGERS

Universal Programmable Balanced Battery Charger

Particularly suited to radio control hobbies, it charges, discharges and balances Li-Ion, Li-Po, Ni-Cd, Ni-MH and lead-acid batteries. Li-Po batteries are balance-charged so there's no risk of damage or explosion from incorrect charging. The charging cycle is programmable and the whole process, or the charging of each individual cell can be monitored on the LCD screen. It can be powered with a mains plugpack or directly from a 12V battery or any other DC source from 10 - 18 volts. You'll need a fairly beefy mains supply capable of supplying about 5 amps. A variety of adaptors are included - glow plug, alligator clip, 2 and 3 pin battery packs and it also features balance charge connectors on the main housing.

Charging capacity:

- Up to 15 Ni-Cd or Ni-MH cells
- 2, 3, 4, 5 or 6 cell Li-Po packs
- 2 - 20V lead-acid
- Charge current: 0.1-5.0A
- Discharge current: 0.1-1.0A
- Current drain for balancing Li-Po: 300mA/cell
- Microprocessor controlled
- Delta V charging detection
- 2, 3, 4, 5 and 6 cell balanced charging outputs
- Recommended mains power supply Cat. MP-3243
- Dimensions: 132(L) x 82(W) x 28(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	MB-3632	\$89.95	\$80.95	\$71.95

Universal Li-ion Cylinder Battery Charger with USB

Can accommodate 1 or 2 AA Ni-Cd/Ni-MH batteries or a variety of cylinder shaped Li-ion/Li-Po batteries. It achieves this with an adjustable battery contact. There is also a handy USB port that outputs 2.1A so you can charge your iPad® and Smartphones with ease. Compact size for easy transportation. Includes 5V 2.1A mains adaptor.

SPECIFICATIONS	MB-3638
Ni-Cd/Ni-MH charging	1.4V 1000mA
Li-Polymer/Li-ion charging	3.7V 1000mA
Suitable for	18650, 14500, 18500, 17670, 17500, 16650, 22650
Dimensions	110(L) x 48(W) x 27(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	MB-3638	\$29.95	\$26.90	\$23.70

Dual-Channel Li-ion / Ni-MH Battery Charger

Features a 4.2V charging mode for lithium based batteries, and a 1.48V charging mode for nickel based batteries. Charges and monitors both charging lanes independently, for the best conditioning of your batteries. LCD provides feedback on charge time, current, and battery voltage. Provides bad-cell detection as well as reverse battery/short circuit protection. Supports charging of LiFePo4, Li-ion, Ni-MH, and Ni-Cd batteries.

SPECIFICATIONS	MB-3635
Input	5VDC @ 2A (micro USB) / 12VDC car power
Output	Lithium: 4.2VDC 500/1,000mA (Li-ion) / 3.7VDC 500/1,000mA (LiFePo4), Nickel: 1.48VDC 500mA (Ni-MH / Ni-Cd)
Charging Current	500mA / 1,000mA
Batteries	Li-ion / LiFePo4: 26650, 22650, 18650, 18490, 18350, 17670, 17500, 14500, 10440, 16340, Ni-MH / Ni-Cd: AA, AAA, AAAA, C, D, SC
Supported	
Dimensions	67(W) x 129(H) x 32(D)mm, 100g



NEW 2017



	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	MB-3635	\$39.95	\$35.95	\$31.95

SHOW US YOUR BUILD COMPETITION

Cameron, who shops at our Jaycar Christchurch store built:

Portable speaker box...extremely loud...LEDs to go to the music! Weight: 10kg, Battery life on full charge: 30-50 (depending on how much bass you want you can adjust potentiometers) plus treble and volume. You can use a PSU for 240V if at home. Also can adjust from 12V DC to 24V DC for power.



Universal Li-ion/Ni-Cd/Ni-MH Battery Charger

This cleverly designed charger to charge various Li-ion battery packs, as well as AA, AAA or 9V Ni-MH and Ni-Cd rechargeable batteries. Housed with a spring loaded cover for clamping down batteries, two Delta-V controlled single cell channel and two adjustable contact pins which are polarity sensing for that added convenience. A USB port on the side accommodates the charging needs for your iPhone®, Smart phone or any USB power device. Topped off with an LCD for displaying the battery type, voltage and charge status. Perfect for digital camera, cordless phone and MP3 player batteries. The charger is supplied with both mains and car adaptors.

- Suitable for: 1 x 3.6V or 7.2V Li-ion battery packs
1-2 x AA/AAA Ni-MH or Ni-Cd batteries
1 x 9V Ni-MH
- USB output: 5VDC, 500mA
- Dimensions: 120(L) x 62(W) x 35(H)mm

Note: iPhone®, charging cable and batteries not included



	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	MB-3639	\$44.95	\$40.45	\$35.95

Li-ion CR123A Battery Charger

CR123A batteries are commonly used in some LED torches and many cameras but the replacements are expensive. Now there's a rechargeable option with this lithium-ion CR123A battery & matching charger. Normally, Li-ION batteries have a nominal voltage of 3.7V, which being higher than a normal CR123 battery can damage the sensitive circuitry of LED torches and cameras - but this battery is different! The battery features smart circuitry inside that drops the voltage to 3.0V under load, making it perfectly safe to use with sensitive electronics that normally use a 3.0V CR123 battery. The intelligent design will fully recharge the included battery in about 3 hours and shows an LED charge status indicator.

- Automatic charge control
- Short circuit & over voltage protection
- Supplied with mains plugpack and car charging cable
- Smart battery technology keeps nominal voltage to 3.0V

Replacement CR123A 650mAh battery Cat. SB-2411 sold separately

NOTE: BATTERY INCLUDED

SPECIFICATIONS	MB-3581
Battery voltage	3VDC
Charge time	3 hours
Charger input	12VDC
Dimensions	90(L) x 40(W) x 25(H)mm

SB-2411

MB-3581



▲	CR123A Charger with Battery	Cat. MB-3581	Qty 1+ \$39.95	Qty 2+ \$35.95	Qty 4+ \$31.95
▲	CR123A Battery	Cat. SB-2411	Qty 1+ \$14.95	Qty 10+ \$13.45	Qty 20+ \$11.95

Universal Lithium Cylinder Battery Charger

A universal smart charger with dual independent charging slots for charging Li-ion, Li-Po and LiFePo4 cylinder cells. The adjustable battery contacts means this charger is suitable for the plethora of available lithium cell sizes such as 14500, CR123A and 18650 to name a few. It can also charge Ni-Cd and Ni-MH in AA and AAA sizes as well as 9V. It features an LCD to show the status of capacity, voltage, time and battery condition (poor/fail). It can be powered using the supplied mains power adaptor or via USB inputs.

- Suitable Lithium sizes: CR123A, 14500, 16650, 17670, 17500, 18500, 18650, 22650, 26650
- Suitable for AA and AAA Ni-Cd and Ni-MH
- Dimensions: 135(L) x 70(W) x 35(D)mm

Note: Batteries not included

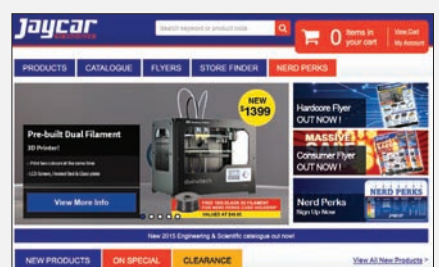
Limited Stock



	Cat.	Qty 1+
▲	MB-3637	\$44.95

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NICKEL METAL HYDRIDE NI-MH RECHARGEABLE BATTERIES

Nickel Metal Hydride (Ni-MH) batteries offer superior features to nickel cadmium (Ni-Cd) rechargeable batteries. These features include:

- No memory effect
- Higher current capacities
- High drain performance



*Supplied in Blister Packs

Size	Current Capacity mAh	V	Per	Charging Rate Slow - 15 Hours	Charging Rate Standard - 5 Hours	Charging Rate Fast - 1.5 Hours	Terminal Type	Cat. No.	Qty 1+	Qty 8+	Qty 15+
AAA	900	1.2	EA	90	270	900	Nipple	SB-1723	\$2.95	\$2.60	\$2.30
AAA	900	1.2	EA	90	270	900	Solder tabs	SB-1724	\$3.95	\$3.45	\$3.15
AA	2000	1.2	EA	200	650	2000	Nipple	SB-1706	\$4.25	\$3.75	\$3.30
AA	2000	1.2	EA	200	650	2000	Solder tabs	SB-1708	\$4.45	\$3.95	\$3.45
AA	2400	1.2	EA	240	750	2400	Solder tabs	SB-1728	\$4.95	\$4.45	\$3.90
AA	2500	1.2	EA	260	800	2500	Nipple	SB-1744	\$5.25	\$4.70	\$4.20
AAA	900	1.2	Pkt 4*	90	270	900	Nipple	SB-1739	\$10.95	\$9.45	\$8.45
AA	2000	1.2	Pkt 4*	200	650	2000	Nipple	SB-1737	\$15.95	\$14.35	\$12.70
AA	2500	1.2	Pkt 4*	260	800	2500	Nipple	SB-1738	\$18.95	\$16.95	\$14.95
Size	Current Capacity mAh	V	Per	Charging Rate Slow - 15 Hours	Charging Rate Standard - 5 Hours	Charging Rate Fast - 1.5 Hours	Terminal Type	Cat. No.	Qty 1+	Qty 4+	Qty 10+
SUB C	3300	1.2	EA	350	670	3300	Solder tabs	SB-1611	\$8.95	\$7.95	\$6.95
D	9000	1.2	Pkt 2*	900	3000	9000	Nipple	SB-1734	\$44.95	\$40.45	\$35.90
SUB C	2400 ¹	1.2	EA	240	740	2400	Solder tabs	SB-1617	\$6.95	\$6.25	\$5.50
9V	200	8.4	EA	20mA	60mA		Clip	SB-2467	\$13.95	\$12.55	\$11.15
C	3000 NEW	1.2	Pkt 2*	450	1500	3000	Nipple	SB-1736	\$17.95	\$15.95	\$13.95

Note 1: Cat. SB-1617 high power battery with peak pulse discharge up to 30A and constant current discharge to 15A.

Panasonic Eneloop Ni-MH Pre-Charged Rechargeable Batteries

This range of Panasonic Eneloop batteries have numerous advantages over regular rechargeables. Key characteristics include low self-discharge, they are pre-charged so can be used right out of the packet, and can be recharged up to 1800 times. After 5 years of storage they will retain 70% of their capacity once fully charged. A far more environmentally friendly option than churning through dozens of alkalines.

PANASONIC ENELOOP NI-MH 1.2V 2000MAH - AA 2 PACK
SB-2930

PANASONIC ENELOOP NI-MH 1.2V 2000MAH - AA 4 PACK
SB-2931

PANASONIC ENELOOP NI-MH 1.2V 800MAH - AAA 2 PACK
SB-2932

PANASONIC ENELOOP NI-MH 1.2V 800MAH - AAA 4 PACK
SB-2933



Panasonic XX High Capacity Eneloop Ni-MH 1.2V - 4 Packs

For even more demanding applications the Panasonic XX High Capacity range are perfect. They provide a massive 2500mAh capacity (AA size), can be recharged 500 times, and will retain 75% of their capacity after a year in storage. They can also be used in sub-zero temperatures (-20°C) without issue. The high capacity allows you to take up to 5x more pictures with your digital camera.

900MAH - AAA 4 PACK
SB-2938

2500MAH - AA 4 PACK
SB-2936



+ See page 55 for an Eneloop Battery Charger

		Cat.	Qty 1+
▲	AA 2000mAh	Pack 2	SB-2930 \$15.95
	AA 2000mAh	Pack 4	SB-2931 \$27.95
	AAA 800mAh	Pack 2	SB-2932 \$15.95
	AAA 800mAh	Pack 4	SB-2933 \$27.95

		Cat.	Qty 1+
▲	AAA 900mAh	Pack 4	SB-2938 \$30.95
	AA 2500mAh	Pack 4	SB-2936 \$30.95

RELATED PRODUCTS



BATTERY HOLDERS P60



ENELOOP CHARGER P55



BATTERY TESTER P59



BATTERY CONTAINERS P59

SPECIALTY RECHARGEABLE BATTERIES

USB Rechargeable Batteries

These batteries simply plug into any powered USB port to be recharged. They're a brilliant idea for battery operated PC input devices such as a mouse or keyboard.

• 1.2V



▲ Type	Pack	Cat.	Qty 1+	Qty 8+	Qty 15+
AAA	2	400mAh	SB-1757	\$9.95	
AA	2	1200mAh	SB-1756	\$19.95	

18650 USB Rechargeable Lithium Polymer Battery 1200mAh 3.7V

No external charger required, just a USB port. Simply flip-off the cap and plug it in to recharge! No cables, charger, or other fuss required.

SPECIFICATIONS SB-2309

Voltage	3.7V
Current	1A
Capacity	1200mAh
Dimensions	63(H) x 19(Dia.)mm



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 20+
18650	1200mAh	SB-2309	\$19.95	\$17.95

7.2V 3300mAh Ni-MH RC Battery

High capacity, high current discharge Ni-MH pack for radio control cars. Fitted with standard "Tamiya" type plug.



▲ Type	Cat.	Qty 1+	Qty 8+	Qty 15+
6 x Sub C 3300mAh	SB-2314	\$49.95	\$44.90	\$39.90

Ni-Cd Rechargeable Battery Sub C

SPECIFICATIONS SB-2468

Size	SUB C
Current Capacity	1800mAh
Voltage	1.2V
Charging rate standard	180mA for 14-16 hours ¹
Charging rate Fast 4-5 hours ¹	600mA
Terminal type	Solder tabs



Note 1: At 20°C

Note 2: Similar to batteries used in the Braun electric toothbrush (2 required).

▲ Type	Cat.	Qty 1+	Qty 8+	Qty 15+
Sub C 1800mAh	SB-2468	\$7.95	\$7.15	\$6.35

Long Life Pre-Charged Rechargeable Batteries - 1.2V

Features ultra-low self-discharge technology so they can be used immediately after purchase. It retains 85% of initial capacity after 1 year of storage, are environmentally friendly and ideal for the most demanding of modern digital devices.



Will stay charged even when stored for long periods

▲ Type	Cat.	Qty 1+	Qty 8+	Qty 15+
AA Single - 2000mAh Solder Tags	SB-1751	\$4.95	\$4.45	\$3.90

High Discharge 3300mAh Ni-MH Sub C Battery

Replacement for Ni-Cd batteries in power tools and other battery packs. This high discharge Sub C can discharge at over 40A making it clearly superior to the old Ni-Cd technology, effectively making it obsolete. Supplied fitted with quality solder tabs to make into battery packs either as replacements for Ni-Cd batteries or for new projects.



▲ Type	Cat.	Qty 1+	Qty 8+	Qty 15+
Sub C 3300mAh	SB-1611	\$8.95	\$7.95	\$6.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here!
Check our website for over 3,500 pages of data!



See page 61 for 18650 Battery Holders, for Battery Chargers see page 56

Rechargeable 3V CR123A - Li-Ion

Rechargeable CR123A 650mAh battery

• Use charger MB-3581

See our charger to suit on page 56



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 20+
CR123A 650mAh	SB-2411	\$14.95	\$13.45	\$11.95

LI-ION RECHARGEABLE BATTERIES

Rechargeable Li-ion batteries

Choose between nipple or solder tabs to make into battery packs for replacement or new projects. Commonly used in LED torches.

14500 800MAH 3.7V SOLDER TAG

• Dimensions: 48(L) x 8(Dia.)mm
SB-2300

18650 2,600MAH 3.7V NIPPLE

• Dimensions: 65(L) x 18(Dia.)mm
SB-2308

26650 3,400MAH 3.7V NIPPLE

• Dimensions: 68(L) x 21(Dia.)mm
SB-2315

14500 800MAH 3.7V SOLDER TAG

• Dimensions: 48(L) x 8(Dia.)mm
SB-2301

18650 2,600MAH 3.7V SOLDER TAG

• Dimensions: 65(L) x 18(Dia.)mm
SB-2313

26650 3,400MAH 3.7V SOLDER TAG

• Dimensions: 68(L) x 26(Dia.)mm
SB-2319



▲ Type	Cat.	Qty 1+	Qty 8+	Qty 15+
14500 800mAh 3.7V Nipple	SB-2300	\$9.95	\$8.95	\$7.95
14500 800mAh 3.7V Solder	SB-2301	\$10.95	\$9.85	\$8.75
18650 2600mAh 3.7V Nipple	SB-2308	\$15.95	\$13.95	\$12.45
18650 2600mAh 3.7V Solder	SB-2313	\$17.95	\$15.95	\$13.95
26650 3400mAh 3.7V Nipple	SB-2315	\$19.95	\$17.95	\$15.95
26650 3400mAh 3.7V Solder	SB-2319	\$21.95	\$19.45	\$17.45

LIFEPO4 RECHARGEABLE BATTERIES

LiFePO4 Rechargeable Batteries

Lithium iron phosphate (LiFePO4) is a more chemically stable type of lithium rechargeable cell that is becoming increasingly popular, due to the increased safety and longer cycle life over traditional Li-ion cells. They have a slightly lower capacity and nominal voltage than equivalent Li-ion cells, but can be charged/discharged around 2000 times (versus 500-1000 for Li-ion), and can deliver higher peak currents. We now offer a couple of common sizes:

14500 3.2V 600MAH LIFEPO4

• Capacity: 600mAh
• Dimensions: 14(diam) x 50(L)mm
SB-2305

18650 3.2V 1600MAH LIFEPO4

• Capacity: 1600mAh
• Dimensions: 18(diam) x 69(L)mm
SB-2307

26650 3.2V 3000MAH LIFEPO4

• Capacity: 3000mAh
• Dimensions: 68(L) x 21(Dia.)mm
SB-2317



▲ Type	Cat.	Qty 1+	Qty 8+	Qty 15+
14500 600mAh 3.2V	SB-2305	\$11.95	\$10.45	\$9.45
18650 1600mAh 3.2V	SB-2307	\$19.95	\$17.95	\$15.95
26650 3000mAh 3.2V	SB-2317	\$23.95	\$21.45	\$18.95

CORDLESS PHONE BATTERIES

Telephone Batteries to Suit Uniden Phones

A collection of replacement batteries suitable for Uniden cordless phones. All are heat shrink wrapped with suitable connectors so it's a simple drop in replacement.

2.4V 800mAh Ni-MH - 80AAM2BMS
SB-1651**2.4V 650mAh Ni-MH CTB97 - 65AAAH2BMS**
Suits Uniden models: BT-652, BT652, CTB97
SB-1653**2.4V 650mAh Ni-MH CTB96 - 65AAAH2BMJ**
SB-1654

▲		Cat.	Qty 1+	Qty 10+	Qty 20+	
	80AAM2BMS	2.4V / 800mAh	SB-1651	\$18.95	\$17.05	\$15.15
	65AAAH2BMS	2.4V / 650mAh	SB-1653	\$18.95	\$17.05	\$15.15
	65AAAH2BMJ	2.4V / 650mAh	SB-1654	\$18.95	\$17.05	\$15.15

Cordless Telephone Batteries – Extended Range

Replacement batteries for cordless telephones.

3.6V 600mAh Ni-MH

- Nominal voltage 3.6V • Nominal capacity 600mAh
- Bank of three batteries next to each other
- Dimensions: 30(H) x 14(W) x 41(L)mm
- Supplied with lead and two pin Mitsumi plug.
- Suits Panasonic KXT3716, 3806, 3826, 4026, 4027, 4036, 4046, 4047, 4300 & 4317
- Uniden CT301, XC360, XC310, XC320, XC340, XC610
- Also suits various Sony & James Hardie phones.

▲	Cat.	Qty 1+	Qty 10+	Qty 20+
	SB-1645	\$12.95	\$11.35	\$10.35

3.6V 650mAh Ni-MH

- Nominal voltage: 3.6V
- Suitable for Panasonic KXTC1220/KXTC1230
- GP Battery No. GP65AAAH3BMS

▲	Cat.	Qty 1+	Qty 10+	Qty 20+
	SB-1646	\$17.95	\$16.15	\$14.35

3.6V 1000mAh Ni-Cd

- Nominal voltage: 3.6V
- Suitable for Panasonic KX-TC1801 - KT-TC1890
- GP Battery No. GP100AAS3BMS

▲	Cat.	Qty 1+	Qty 10+	Qty 20+
	SB-1648	\$18.95	\$17.05	\$15.15

3.6V 850mAh Ni-MH

- Nom voltage 3.6V
- Suitable for Uniden WDECT2315 - WDECT2310, DSS5805, 5855, 5865
- GP battery No. GP85AAALH3BMS

▲	Cat.	Qty 1+	Qty 10+	Qty 20+
	SB-1634	\$29.95	\$26.95	\$23.95



See our range of Cordless Phones on page 380

GIFT CARD

Can't find what to buy?
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let them choose!



BATTERY TESTERS & HOLDERS

Battery / Bulb / Fuse Tester

Battery tester with fuse and bulb checker. Tests AAA, AA, C, D (1.5V) & 9V batteries on the easy-to-read, colour-coded analogue display. It checks bulbs and fuses, giving a 'good' or 'replace' indication, and will also test larger 1.5V button batteries like the LR-44. There is also a handy compartment to store spare fuses, bulbs and button cells.

- Very accurate
- Dimensions: 150mm long
- Uses 9V Battery (included)

If you are a serious battery user you would be crazy not to own one of these. Kids are notorious for throwing good batteries in the bin!



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	QP-2252	\$13.95	\$12.35	\$10.95

All in One Battery Tester

Here's a modern day battery tester to suit all your needs. This handy unit will test all types of batteries currently out there on the market including standard AA/AAA/C/D/9V batteries, button cells and lithium batteries such as those used in digital cameras. The LCD indicates the level of capacity so you'll never get caught out on a day trip with 1/2 flat batteries in your digital camera.

- One product to test all those batteries in your kitchen drawer before use!!

Note: Batteries not included



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	QP-2253	\$23.95	\$21.35	\$18.95

Battery Organiser with Tester

Batteries are too expensive to waste and this well-designed organiser is an easy way to make the most of them. Hanging on a wall or flat in a drawer it holds 8 x D, 10 x C, 25 x AA, 10 x AAA and 8 x 9V batteries and you can store button batteries in the little drawer. There's even a removable tester so you can be sure each one is ready to use.

- 290(L) x 150(W) x 35(D)mm



Note: Batteries not included

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	QP-2312	\$16.95	\$15.25	\$13.55

4 x AA Battery Container

PACK OF 2

Handy battery containers to store your AA batteries. Perfect for every digital camera owner who should have a spare set of batteries, charged and ready to go. Each container holds up to 4 x AA batteries and measure only 65mm wide, easily fitting in the pocket, purse or camera bag.

- One red and one blue supplied.



Batteries not included

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6359	\$4.45	\$3.95	\$3.45

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BATTERY HOLDERS - AAA SIZE

The holders are moulded in Delrin with corrosive resistant nickel plated springs & studs. All have connection wires 150mm long, unless marked.

We can supply OEM quantities of holders with special configurations

1 X AAA



PH-9260

1 X AAA PCB MOUNT



PH-9261

2 X AAA CELL



PH-9226

2 X AAA PCB MOUNT



PH-9264

2 X AAA SWITCHED BATTERY ENCLOSURE



PH-9288

4 X AAA SIDE BY SIDE



PH-9268

4 X AAA PCB MOUNT



PH-9270

4 X AAA SWITCHED BATTERY ENCLOSURE



PH-9285

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
1 x AAA	PH-9260	\$1.10	\$0.95	\$0.85
1 x AAA PCB Mount	PH-9261	\$1.35	\$1.20	\$1.05
2 x AAA Cell	PH-9226	\$1.45	\$1.30	\$1.15
2 x AAA PCB Mount	PH-9264	\$1.45	\$1.30	\$1.15

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
2 x AAA Switched Battery Enclosure	PH-9288	\$2.75	\$2.45	\$2.20
4 x AAA Side by Side	PH-9268	\$2.45	\$2.15	\$1.95
4 x AAA PCB Mount	PH-9270	\$2.45	\$2.15	\$1.95
4 x AAA Switched Battery Enclosure	PH-9285	\$3.50	\$3.15	\$2.80

AA SIZE

1 X AA



PH-9203

2 X AA SIDE BY SIDE



PH-9202

2 X AA SWITCHED BATTERY ENCLOSURE



PH-9280

4 X AA SQUARE



PH-9200

4 X AA SIDE BY SIDE & END TO END



PH-9204

4 X AA SWITCHED BATTERY ENCLOSURE



PH-9282

6 X AA 2 BY 3 SIDE BY SIDE



PH-9206

8 X AA 2 ROWS OF 4 SQUARE



PH-9209

10 X AA SIDE BY SIDE



PH-9210

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
1 x AA	PH-9203	\$1.10	\$0.95	\$0.85
2 x AA Side by Side	PH-9202	\$1.25	\$1.10	\$1.00
2 x AA Switched Battery Enclosure	PH-9280	\$3.35	\$3.00	\$2.65
4 x AA Square	PH-9200	\$1.95	\$1.75	\$1.55
4 x AA Side by Side & End to End	PH-9204	\$1.65	\$1.45	\$1.30

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
4 x AA Switched Battery Enclosure	PH-9282	\$3.75	\$3.35	\$3.00
6 x AA 2 by 3 Side by Side	PH-9206	\$2.35	\$2.10	\$1.85
8 x AA 2 Rows of 4 Square	PH-9209	\$2.75	\$2.45	\$2.20
10 x AA Side by Side	PH-9210	\$4.75	\$4.25	\$3.80

C SIZE

1 X C CELL



PH-9212

4 X C CELL 2 ROWS OF 2 END TO END



PH-9216

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
1 x C Cell	PH-9212	\$1.95	\$1.75	\$1.55
4 x C Cell 2 Rows of 2 End to End	PH-9216	\$2.95	\$2.65	\$2.35

D SIZE

1 X D CELL



PH-9218

2 X D CELL SIDE BY SIDE



PH-9220

4 X D CELL 2 ROWS OF 2



PH-9222

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
1 x D Cell	PH-9218	\$1.75	\$1.55	\$1.40
2 x D Cell Side by Side	PH-9220	\$2.45	\$2.15	\$1.95
4 x D Cell 2 Rows of 2	PH-9222	\$2.95	\$2.60	\$2.30

9V SIZE

PCB MOUNT 9V



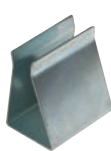
PH-9235

9V PCB X 2 MOUNT CLIPS



PH-9239

9V HOLDER



PH-9237

STANDARD 9V SNAP-ON



PH-9230

QUALITY 9V BATTERY CLIP



PH-9232

BEST QUALITY "SAFETY" 9V BATTERY CLIP



PH-9233

BEST QUALITY "T" SAFETY 9V BATTERY CLIP



PH-9234

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
PCB Mount 9V	PH-9235	\$1.25	\$1.10	\$1.00
9V PCB x 2 Mount Clips	PH-9239	\$1.95	\$1.75	\$1.55
9V Holder	PH-9237	\$0.95	\$0.86	\$0.76
Standard 9V Snap-On	PH-9230	\$0.75	\$0.68	\$0.60

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Quality 9V Battery Clip	PH-9232	\$0.95	\$0.86	\$0.76
Best Quality "Safety" 9V Clip	PH-9233	\$1.30	\$1.15	\$1.00
Best Quality "T" Safety 9V Clip	PH-9234	\$1.30	\$1.15	\$1.00

BATTERY CONTAINERS & HOLDERS (CONTINUED)

3 x AAA Battery Holder for LED Lights

Round battery holder that holds 3 x AAA batteries. Suits LED torches and bike lights, including ST-3465, ST-3456 and ST-3475. Have a few handy, loaded with batteries (available separately), if you're going long distance.

- Dimensions: 53.5(L) x 22.3(Dia)mm (without batteries)



	Cat.	Qty 1+	Qty 10+	Qty 25+
▲	PH-9221	\$1.55	\$1.35	\$1.20

18650 Battery Holders with 150mm Lead

Ideal for Arduino® projects or any on-board power storage applications. Includes 150mm leads so it is suitable for case mounting too.

PH-9205 SINGLE:

- Dimensions: 75(W) x 22(D) x 20(H)mm

PH-9207 DOUBLE

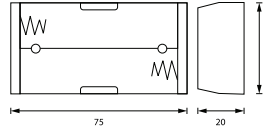
- Dimensions: 75(W) x 39(D) x 20(H)mm



PH-9205



PH-9207



	Cat.	Qty 1+	Qty 10+	Qty 25+
▲				
1 x 18650	PH-9205	\$2.95	\$2.65	\$2.35
2 x 18650	PH-9207	\$4.95	\$4.45	\$3.95

4 x AA Switched Battery Enclosure with 2.1mm DC Plug

- High quality ABS holder with on/off switch and sliding cover
- Includes 150mm lead 2.1mm DC Plug (centre positive)
- Dimensions: 68(L) x 65(W) x 19(H)mm



	Cat.	Qty 1+	Qty 10+	Qty 25+
▲	PH-9283	\$5.95	\$5.50	\$4.75

Battery Bank 4 x AA with USB Socket & Switch

Provides 5VDC power through the USB socket by using 4 x AA batteries. The unit makes a superb back-up charger for any USB powered device such as an MP3 player or PDA and also features a slide on/off switch.

- Dimensions: 15(H) x 63(W) x 80(D)mm



Batteries not included

Note: Output is not regulated

	Cat.	Qty 1+	Qty 10+	Qty 25+
▲	MP-3083	\$6.95	\$6.25	\$5.50

4 x AA Waterproof Battery Enclosure

Simply add your own AA batteries and you have a 6V power source to power your gadgets when mains power is not available. It is water and dustproof, so it can be used outdoors, which could include powering outdoor weather sensors, tank level meters, door entry buzzers, decorative LED lighting, etc.

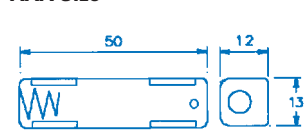
- High impact resistant ABS enclosure with a nylon cable gland
- Rated IP68 to provide protection against oil, dust and water
- Enclosure is secured by brass nuts moulded in the interior of the base with 4 x supplied self tapping screws
- Includes 150mm long tinned leads
- Dimensions: 79(L) x 67(W) x 23(H)mm



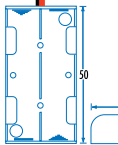
	Cat.	Qty 1+	Qty 10+	Qty 25+
▲	PH-9281	\$9.95	\$8.95	\$7.95

BATTERY CONTAINERS & HOLDERS LINE DRAWINGS

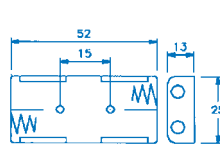
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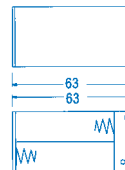
PH-9260 & PH-9261



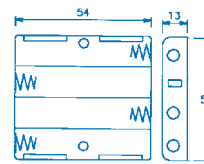
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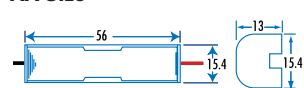


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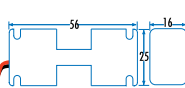


PH-9268 & PH-9270

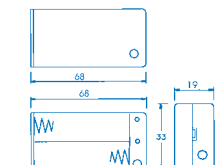
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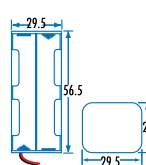
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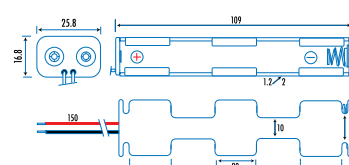
PH-9202



PH-9280



PH-9200



PH-9204



Bottom

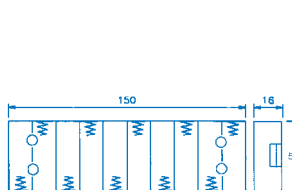
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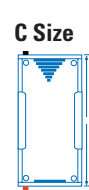
PH-9206



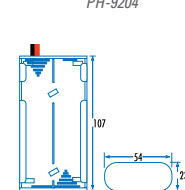
PH-9209



PH-9210

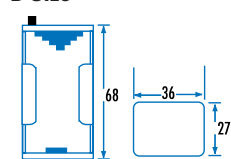


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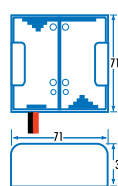


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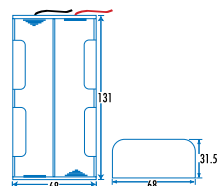
D Size



PH-9218

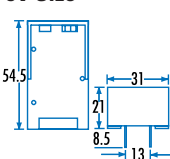


PH-9220

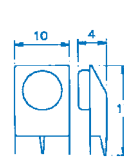


PH-9222

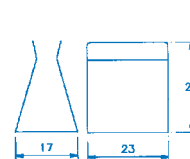
9V Size



PH-9235



PH-9239



PH-9237

BATTERY TYPE					COMPARISON GUIDE	
Type (Chemistry)	Common Name	Normal Cell Volts	Internal Resistance	Max Discharge Rate	Pros & Cons	Typical Application
Carbon-Zinc	Standard Duty	1.5	Medium	Medium	Low cost, available in various sizes; but terminal voltage drops steadily during cell life	Torches, radios, toys, & general purpose, electronic equipment
Zinc Chloride	Heavy Duty	1.5	Low	Medium to High	Low cost, better at high discharge rates & at lower temperatures; terminal voltage still drops	Cassette players, motor-driven items, clocks, calculators, remote controls, multimeters, etc
Alkaline - Zinc-Manganese Dioxide	Alkaline	1.5	Very Low	High	Better for high continuous or pulsed loads & at low temperatures; but terminal voltage again drops	Heavy duty torches, photoflashes, shavers, digital cameras, hand-held transceivers, CD players etc
Lithium-Manganese Dioxide	Lithium	3.0	Low	Medium to High	High energy density, very low self-discharge rate (excellent shelf life) good temperature tolerance	Watches, calculators, cameras (digital & film), DMMs, and other test instruments
Zinc-Mercuric Oxide	Mercury Cel	1.35	Low	Low	High energy density (compact); very flat discharge curve; good at higher temperatures	Calculators, pagers, hearing aids, watches, test instruments (voltage reference)
Zinc-Silver Oxide	Silver Oxide Cell	1.5	Low	Low	High energy density (very compact); very flat discharge curve; reasonable at lower temperatures	Calculators, pagers, hearing aid, watches, test instruments (voltage reference)
Zinc-Oxygen	Zinc Air Cell	1.45	Medium	Low	High energy density, lightweight; flat discharge curve; must have access to air	Hearing aids and pagers

BUTTON CELL BATTERIES

1.5V Silver Oxide Batteries

These batteries generally have a protective layer of silicon on them. Please wipe with a cloth and avoid touching with fingers before installing them.



Type #	Capacity	Eveready	Vinnic	Maxell	IEC	Other	Pk.	Dia x H(mm)	Cat.	Qty 1+	Qty 8+	Qty 15+
357	155mAh	357	S1154E	SR44W	SR44	613/RW12/32/S1154S	ea	11.6 x 5.4	SB-2512	\$1.95	\$1.75	\$1.55
362	21mAh	362	S721E	S721SW	SR58	SG11/SR720/532/19/RW310	ea	7.9 x 2.1	SB-2530	\$1.95	\$1.75	\$1.55
364	20mAh	364	S621E	S621SW	SR60	SG1/SR620/531/31/RW320	ea	6.8 x 2.1	SB-2501	\$1.95	\$1.75	\$1.55
371	44mAh	-	-	SR920SW	SR69	SG6/537/30/RW315	ea	9.5 x 2.1	SB-2534	\$1.95	\$1.75	\$1.55
377	27mAh	-	-	SR626SW	SR66	SG4/37	ea	6.8 x 2.6	SB-2504	\$1.95	\$1.75	\$1.55
389	60mAh	-	-	SR1130SW	SR54	RW49/AG10/G10/SG10/554/390	ea	11.6 x 3.05	SB-2508	\$1.95	\$1.75	\$1.55
391	40mAh	-	-	SR1121W	SR55	SG8/68/553/28/RW40	ea	11.6 x 2.1	SB-2542	\$1.95	\$1.75	\$1.55
392	38mAh	-	-	SR41W	SR41	SG3/63/547/2/RW27/RW47	ea	7.9 x 3.6	SB-2502	\$1.95	\$1.75	\$1.55
393	65mAh	-	-	SR754W	SR48	SG5/65/546/15/RW28/RW48	ea	7.9 x 5.4	SB-2532	\$1.95	\$1.75	\$1.55
396	25mAh	-	-	SR726W	SR59	SG2/556/29/RW411	ea	7.9 x 2.6	SB-2510	\$1.95	\$1.75	\$1.55
399	42mAh	-	-	SR927W	SR57	SG7/SR926/543/35/RW413	ea	9.5 x 2.7	SB-2536	\$1.95	\$1.75	\$1.55

1.5V Alkaline Batteries

Type #	Capacity	Eveready	Vinnic	Maxell	VARTA	Other	Pk.	Dia x H(mm)	Cat.	Qty 1+	Qty 8+	Qty 15+
LR936	45mAh	-	-	LR45	-	AG9	ea	9.5 x 3.6	SB-2513	\$1.50	\$1.35	\$1.20
LR43	90mAh	166	-	LR43	V12GA	-	ea	11.6 x 4.2	SB-2514	\$1.50	\$1.35	\$1.20
LR44	120mAh	A76	-	LR44	V13GA	357A	ea	11.6 x 5.4	SB-2516	\$1.50	\$1.35	\$1.20
LR44 (Panasonic)	120mAh	LR44	-	LR44	V13GA	357A	ea	11 x 5	SB-2950	\$3.95	\$3.55	\$3.15

3V Lithium Batteries

• Not rechargeable.



Type #	Capacity	Pk.	Dia x H(mm)	Cat.	Qty 1+	Qty 8+	Qty 15+
CR1220	30mAh	ea	12 x 2.0	SB-2527	\$2.95	\$2.60	\$2.30
CR1616	45mAh	ea	16 x 1.5	SB-2525	\$2.95	\$2.60	\$2.30
CR1620	50mAh	ea	16 x 2.0	SB-2526	\$2.95	\$2.60	\$2.30
CR1632	150mAh	ea	16 x 3.2	SB-2529	\$2.95	\$2.60	\$2.30
CR2016	60mAh	ea	20 x 1.6	SB-2524	\$2.95	\$2.60	\$2.30
CR2025	110mAh	ea	20 x 2.5	SB-2520	\$2.95	\$2.60	\$2.30
CR2032	140mAh	ea	20 x 3.2	SB-2522	\$2.95	\$2.60	\$2.30
CR2450 Eclipse	575mAh	ea	25.5 x 5.0	SB-2946	\$4.95	\$4.45	\$3.95
CR2430	270mAh	ea	24.5 x 3.0	SB-2523	\$2.95	\$2.60	\$2.30

3V Lithium Batteries - Panasonic

• Not rechargeable.



Panasonic

Type #	Capacity	Pk.	Dia x H(mm)	Cat.	Qty 1+	Qty 10+	Qty 20+
CR2016	90mAh	ea	20 x 1.6	SB-2940	\$4.95	\$4.45	\$3.90
CR2025	165mAh	ea	20 x 2.5	SB-2942	\$4.95	\$4.45	\$3.90
CR2032	220mAh	ea	20 x 3.2	SB-2944	\$4.95	\$4.45	\$3.90

Standard Button Cell Holder

PCB mount holder, suits button cells, with diameter up to 20mm, which includes the 3V lithium batteries.

*May vary slightly to one shown.

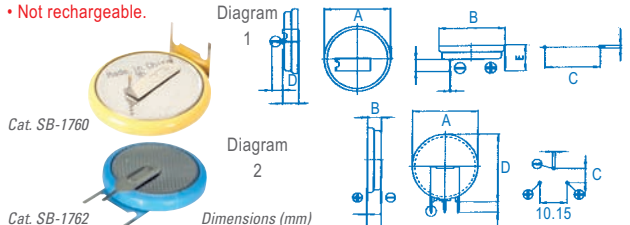


	Cat.	Qty 1+	Qty 10+	Qty 25+
▲	PH-9238	\$1.95	\$1.75	\$1.55

3V PCB Mounting Lithium Coin Batteries

Two of the most popular solder-in PCB mounting type batteries. All 3 volt.

• Not rechargeable.



CAPACITY	Part No.	Diag.	Cat.	A	B	C	D
200mAh	CR2032VC	2	SB-1762	20	3.2	3.5	21
400mAh	CR2430-HC-33	1	SB-1760	24.5	24.7	17.8	9.45
540mAh	CR2540NRH	2	SB-1622	24.5	24.5	17.8	11.35

▲ Part No.	Capacity	Cat.	Qty 1+	Qty 10+	Qty 20+
CR2430-HC-33	400mAh	SB-1760	\$3.95	\$3.45	\$3.15
CR2032VC	200mAh	SB-1762	\$2.45	\$2.15	\$1.95
CR2540NRH	540mAh	SB-1622	\$5.75	\$4.95	\$4.60

ALKALINE BATTERIES

ECLIPSE Alkaline Batteries

Eclipse batteries are made to the same specifications of those well known expensive brands advertised on TV, but at a realistic price. We are very, very proud of these products and stand behind them unconditionally. If you try them & are disappointed with them for any reason we will give you a full refund and another set of ECLIPSE batteries to see if you can work out what went wrong!

eclipse



NEW 2017



SB-2387 SB-2426 SB-2424 SB-2416 SB-2418 SB-2423

▲ Pack	Size	Cat.	Qty 1+	Qty 10+	Qty 20+
2	AAAA NEW	SB-2387	\$1.95	\$1.75	\$1.55
2	AAA	SB-2426	\$1.75	\$1.55	\$1.40
4	AAA	SB-2413	\$2.95	\$2.65	\$2.35
12	AAA	SB-2334	\$6.95	\$6.25	\$5.55
24	AAA	SB-2331	\$10.95	\$9.45	\$8.45
40	AAA	SB-2328	\$14.95	\$13.45	\$11.95
2	AA	SB-2424	\$1.75	\$1.55	\$1.40
4	AA	SB-2425	\$2.95	\$2.65	\$2.35
12	AA	SB-2333	\$6.95	\$6.25	\$5.55
24	AA	SB-2329	\$10.95	\$9.45	\$8.45
40	AA	SB-2332	\$14.95	\$13.45	\$11.95
2	C	SB-2416	\$3.95	\$3.45	\$3.15
4	C	SB-2320	\$6.95	\$6.25	\$5.50
2	D	SB-2418	\$4.50	\$4.05	\$3.60
4	D	SB-2321	\$7.95	\$7.15	\$6.35
1	9V	SB-2423	\$3.95	\$3.45	\$3.15
6	9V	SB-2417	\$14.95	\$13.45	\$11.95

PANASONIC Batteries

Panasonic® is not a name that you instantly associate with high performance batteries, but we have come to learn that in fact Panasonic® has been manufacturing batteries for many years, providing OEM manufacturing and strong research & development for many of the big brands you know and recognise. But now they have decided to keep their latest technology for themselves, and launch into the market under their own brand.

These new Panasonic® Evolta® batteries currently hold an internationally recognised record for the longest lasting AA alkaline battery - yes we know that everyone makes these sorts of claims, but they have the test results to verify it! If you don't believe us, test them for yourself, we are sure you will be impressed!

Having said that, the prices are quite competitive, considering the outstanding performance of the Evolta® product. We are confident that with a name like Panasonic® you can be confident about quality! So if using brand-name batteries is important to you we would love you to try the Panasonic® Evolta® alkaline range.

Panasonic
EVOLTA

▲ Type	Pack	Cat.	Qty 1+
AAA	2	SB-2906	\$3.95
AAA	4	SB-2908	\$6.95
AAA	8	SB-2910	\$11.95
AA	2	SB-2900	\$3.95
AA	4	SB-2902	\$6.95
AA	8	SB-2904	\$11.45
AA	20	SB-2905	\$24.95
C	2	SB-2912	\$7.50
D	2	SB-2914	\$8.95
9V	ea	SB-2916	\$7.95

ALKALINE BATTERIES - SPECIALITY TYPE

6, 9, 12V Alkaline Batteries

• Blister packed

(A) 12V CAR ALARM REMOTE CONTROL BATTERY - A23 TYPE/L1028/SLR23/GP23A (HOUSE BRAND)

As used in remote controls for most car alarms. Size 9.5mm dia x 27mm high. See photo "A".



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 20+
A23	SB-2420	\$1.95	\$1.75	\$1.55

(B) 12V THIN CAR ALARM REMOTE CONTROL BATTERY - L828 TYPE

As used in new generation small sized car alarm remote controls. Size 8mm dia x 28mm high. See photo "B".

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 20+
L828	SB-2422	\$3.20	\$2.83	\$2.45

(C) 6V ALKALINE BATTERY - L1325/4LR44 TYPE

These are the same size as A544 batteries. Used mainly in cameras. Size 13mm dia x 25mm. See photo "C".

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 20+
L1325/4LR44	SB-2415	\$3.25	\$2.90	\$2.60

(D) 6V ALKALINE BATTERY

No L1016/11A. Dimensions: 9.5mm dia x 15mm high. See photo "D".

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 20+
L1016/11A	SB-2421	\$2.95	\$2.60	\$2.30

(E) 9V ALKALINE BATTERY - GP29A/L822 TYPE

General purpose remote control battery. Dimensions: 7.7(dia) x 21.4(L)mm Capacity 18mAh. See photo "E".

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 20+
GP29A/L822	SB-2427	\$3.95	\$3.45	\$3.15

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

12V Panasonic Alkaline

Car alarm battery.

• LRV08, A23, L1028.

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 20+
A23	SB-2970	\$3.95	\$3.55	\$3.15



N Size Extra Heavy Duty Zinc Chloride - Vinnic

These batteries are superior to standard carbon-zinc cells but are much cheaper and have a longer shelf life.

• Blister Packed

▲ Type	Pack	Cat.	Qty 1+	Qty 10+	Qty 20+
N	2	SB-2346	\$3.45	\$3.05	\$2.75



Eclipse Lantern Battery

A 6 volt heavy duty battery as used in many torches including the very popular Dolphin.

• Carbon zinc battery

▲	Cat.	Qty 1+	Qty 10+	Qty 20+
	SB-2394	\$5.45	\$4.90	\$4.30



RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'. Conditions apply - see page 528 for details.

LITHIUM BATTERIES

Eclipse Plus Lithium AAA 1.5V Battery Packs

This range of Lithium Iron Disulfide (LiFeS₂) batteries pack 5-6 times the capacity of their alkaline equivalents in high power applications. Using these represents a 40-60% cost saving over alkaline batteries. Refer to our website for discharge performance specifications with comparison to leading brand name Lithium batteries.

Not rechargeable

SPECIFICATIONS BOTH MODELS

Capacity	>1200mAh
Max constant load	1500mA
Max pulse load	2000mA
Terminal voltage	1.5V



▲	Pkt.	Cat.	Qty 1+	Qty 10+	Qty 20+
AAA	2	SB-2351	\$10.95	\$9.45	\$8.45
AAA	4	SB-2352	\$16.95	\$14.95	\$13.45

Eclipse Plus Lithium AA 1.5V Battery Packs

This range of Lithium Iron Disulfide (LiFeS₂) batteries pack 5-6 times the capacity of their alkaline equivalents in high power applications. Using these represents a 40-60% cost saving over alkaline batteries. Refer to our website for discharge performance specifications with comparison to leading brand name Lithium batteries.

Not rechargeable

SPECIFICATIONS BOTH MODELS

Capacity	>3000mAh
Max constant load	2000mA
Max pulse load	3000mA
Terminal voltage	1.5V



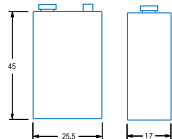
▲	Pkt.	Cat.	Qty 1+	Qty 10+	Qty 20+
AA	2	SB-2355	\$11.95	\$10.45	\$9.45
AA	4	SB-2357	\$17.95	\$15.95	\$13.95

Eclipse Lithium 9V Battery 1200mAh

As you know, lithium batteries are essential for such things as smoke detectors, wireless alarm systems, garage door opener remotes etc. They are a bit more expensive, but your family's lives are worth a couple of bucks. Available in single or twin pack:

Not rechargeable.

Please note that the physical size of these batteries is slightly different to standard 9V batteries.



▲	Pkt.	Cat.	Qty 1+	Qty 8+	Qty 15+
9V	Single	SB-2397	\$13.95	\$12.45	\$10.95
9V	2	SB-2396	\$24.95	\$22.45	\$19.95

Energizer 1.5V Lithium Long Lasting Batteries

The perfect power source for high drain current draw cameras, camcorders, personal stereos, mobile phones, palm top computers and TVs.

- Up to 3 times the life of any alkaline battery.
- Up to 10 times the life of ordinary carbon zinc battery
- Guaranteed shelf life up to 10 years.
- 1.5V, 1.4Amp hour (AA).
- Blister Packed

Not rechargeable.



▲	Pkt.	Cat.	Qty 1+
AAA	2	SB-2372	\$13.95
AA	2	SB-2375	\$13.95

COMPUTER BACKUP

3.6V Lithium Computer Backups

These high capacity batteries are used in many desktop and notebook computers to retain date, time and configuration information while the computer is switched off. They are also useful where long shelf life is important or when the battery is to be fitted into difficult or sealed access areas. Storage life is up to 10 years.

- 14.5mm diameter

Not rechargeable



LITHIUM CAN BE DANGEROUS

TECH TALK

All the batteries on this page are non-rechargeable. Do not try to recharge any of these lithium batteries.

There are basically two types of lithium batteries: rechargeable & non-rechargeable. Rechargeable batteries are usually referred to as Lithium-Ion, Lithium Polymer or LiFePO₄. The ONLY WAY to recharge such batteries is with a dedicated charger for the particular battery size, such as CRV-3 or CR123A types. Such chargers are specifically designed to strictly manage the special charge rate requirements for rechargeable lithium ion or lithium polymer cells.

Standard Lithium non-rechargeable batteries are not designed to be recharged - even with a Lithium-Ion or Lithium-Polymer charger. Indeed there is a VERY HIGH likelihood that the battery will violently **EXPLODE** if any attempt is made to charge a standard Lithium battery.

DO NOT try to recharge ANY lithium battery with an undedicated charger, such as lead acid or Ni-Cd charger, under any circumstances.

All batteries on this page are non-rechargeable.

Do not try to recharge any of these lithium batteries.

CR123A 3V Lithium Batteries 6 Pack

Contains 6 CR123A lithium camera batteries, commonly used in LED torches and cameras.

• 3V 1600mAh

Not rechargeable



▲	CR-123A	Pack of 6	Cat.	Qty 1+	Qty 8+	Qty 15+
			SB-2324	\$17.95	\$15.95	\$14.35

Lithium Camera Batteries

Blister Packed

Not rechargeable.

Cat.	Type	Volt	Current
SB-2400	CR123A	3V	1300mA
SB-2401	CR-P2	6V	1300mA
SB-2402	2CR5	6V	1300mA
SB-2404	CR2	3V	750mA



▲		Cat.	Qty 1+	Qty 8+	Qty 15+	
	CR123A	Each	SB-2400	\$4.95	\$4.45	\$3.90
	CR-P2	Each	SB-2401	\$11.95	\$10.75	\$9.55
	2CR5	Each	SB-2402	\$9.95	\$8.75	\$7.75
	CR2	Each	SB-2404	\$5.95	\$5.35	\$4.75

Panasonic® Lithium Camera Batteries

Not rechargeable.

Cat.	Type	Volt	Current
SB-2980	CR123	3V	1500mA
SB-2982	CR2	3V	800mA

Panasonic



▲		Cat.	Qty 1+	Qty 10+	Qty 20+
CR123	Each	SB-2980	\$9.95	\$8.75	\$7.75
CR2	Each	SB-2982	\$11.95	\$10.75	\$9.55

LIFEPO4 EXPLAINED

TECH TALK

Lithium iron phosphate (LiFePO₄) is a technology proving to overcome the safety concerns that exist with Lithium ION (Li-ION) and other lithium battery technologies because it is chemically more stable.

In particular, LiFePO₄ is able to deliver extremely high surge currents without risk of the battery chemistry breaking down (and the battery exploding), holds a charge for a very long time, and is far more stable when exposed to high heat and other environmental conditions.

Cat.	Size	Capacity (mAh)	Max Current (mA)	Height Connect (mm)
SB-1770	Half AA	1200	50	25mm Nipple
SB-1771	Half AA	1200	50	25mm Axial Lead
SB-1774	AA	2400	100	50mm Nipple
SB-1775	AA	2400	100	50mm Axial Lead

▲			Cat.	Qty 1+	Qty 10+	Qty 20+
	Half AA	Each	SB-1770	\$11.95	\$10.70	\$9.50
	Half AA	Each	SB-1771	\$13.95	\$12.35	\$10.95
	AA	Each	SB-1774	\$16.95	\$14.95	\$13.35
	AA	Each	SB-1775	\$18.95	\$16.95	\$14.95

GLOBES

Illuminated Doorbell Globe

Replacement globe for our doorbell SP-0782 switch, can be used as a replacement for other brand doorbells.

- Length 27mm.
- Globe is 12V, but will work on lower voltages.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-2720	\$1.95	\$1.75	\$1.55

12V Switch Globe

As used in our illuminated pushbutton switches
Cat. SP-0742/50/52/53



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-2635	\$5.95	\$5.25	\$4.75

14V Car Alarm Switch Replacement Globes

Replacement globes for flashing switches / bezels for car alarms.



- BI - pin
- TI
- 14 volt
- 2.54 lead spacing

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-2636	\$3.85	\$3.45	\$2.95

Mini Lamps



A large range of various sizes & voltages of mini lamps.

- Supplied with wiring cable pre connected.

Small Size	Volts	Cat.	Wire Colour
Globe size - 3(Ø) x 7mm	1.5	SL-2680	White
PVC lead length - 100mm	3	SL-2681	Red
Current - 0.1A	6	SL-2683	Blue
	9	SL-2684	Green
	12	SL-2685	Yellow
Large Size	Volts	Cat.	Wire Colour
Globe size - 4(Ø) x 10mm	1.5	SL-2670	White
PVC lead length - 150mm	3	SL-2671	Red
Current - 0.1A	6	SL-2673	Blue
	9	SL-2674	Green
	12	SL-2675	Yellow

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	All Types Each	\$1.30	\$1.15	\$1.01

MES

MES means 'Miniature Edison Screw'

Lilliput Globes

- Total length 17mm.
- Width 4.5mm.
- Glass length 8mm.



▲	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
6.3V	200mA	SL-2650	\$0.95	\$0.85	\$0.75
12V	120mA	SL-2652	\$0.95	\$0.85	\$0.75

Miniature Edison Screw Globes

- Total length 27mm.
- Width 9mm.
- Glass length 14mm.



▲	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
6.3V	250mA	SL-2654	\$0.85	\$0.75	\$0.65
12V	100mA	SL-2656	\$0.85	\$0.75	\$0.65

Bye, Bye Torch Globes. We will be phasing out many of these traditional filament globes over the next few years. LED globes are just too superior. If you still use these types, start hoarding them now!

TORCH GLOBES & NEONS

Flange Type Krypton Torch Globes

Krypton globes give up to 70% more light output compared to standard globes.



- 2.2V 470mA - Suits 2 x AA batteries
- 2.4V 520mA - Suits 2 x C batteries
- 2.4V 700mA - Suits 2 x D batteries
- 2.4V 700mA - Suits 3 x D batteries
- 4.8V 750mA - Suits 4 x D batteries

Cat. SL-3200
Cat. SL-3202
Cat. SL-3204
Cat. SL-3206
Cat. SL-3208

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 2	All Types	\$2.95	\$2.60	\$2.30

E14 12VDC Socket - (SES)

Suits E14 small Edison screw fluoro globes. Rated for 12VDC, suits compact fluoro SL-2850

- Base size: 40(Dia) x 42(H)mm
- Mounting holes 30mm apart.



Not suitable for 240V

▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-4072	\$4.95	\$4.45	\$3.90

2.5V Krypton Torch Globe - MES

- 300mA
- Suitable for 2 x 1.5V batteries
- Miniature Edison Screw



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 2	SL-3210	\$2.65	\$2.30	\$2.07

4.8V Krypton Torch Globe - MES

- 300mA
- Miniature Edison Screw



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Each	SL-3211	\$1.95	\$1.75	\$1.55

Globe Holder

Standard MES globe holder (Torch globes).

- Suits SL-2654/6



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	SL-2658	\$0.95	\$0.85	\$0.75

90V NE2 Neon



Would you believe it? After about 100 years of orange-red neons we now can get blue and green ones! You'll buy one out of curiosity!

- Strike voltage: 82V
- Needs 270k resistor in series for 240V operation.

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Orange/Red	SL-2690	\$1.25	\$1.10	\$1.00
Blue	SL-2695	\$1.25	\$1.10	\$1.00
Green	SL-2696	\$1.25	\$1.10	\$1.00

Bakelite Globe Holder

High quality MES globe holder with a round bakelite base.

- No soldering required.
- Holder can easily be screwed to a base plate.
- Diameter 33mm / Height 19mm.
- Suits SL-2654/6
- Ideal as a simple pilot lamp



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	SL-2659	\$2.95	\$2.60	\$2.30

HALOGEN GLOBES

6V 55W Halogen Globe

Replacement globe to suit our ST-3300 halogen spotlights.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-3221	\$5.95	\$5.25	\$4.75

12V 5W Halogen Globe

- 12V @ 5W.
- 4mm pin spacing.
- 8mm pin length
- Total length: 30mm
- Bulb dia: 8mm



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 2	SL-3216	\$5.95	\$5.25	\$4.75

12V 10W Halogen Globe

Halogen globe for illuminated fogger.

- 12V, 10 watts
- 4mm pin spacing.
- Pin length: 8mm
- Total length: 30mm.
- Bulb dia: 8mm



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 2	SL-3217	\$5.95	\$5.25	\$4.75

12V 50W Halogen Globe

Same as 100W unit, but this one is 50W.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
12V 50W	SL-2726	\$5.95	\$5.25	\$4.75

12V 100W Halogen Globe

These are used in hand held spotlights.

- Fitting and contact is by 2 pins which are 6mm apart.
- Length including pins is 40mm.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
12V 100W	SL-2724	\$4.95	\$4.45	\$3.90

12V JC Halogen Globe

2 pin halogen globes.

- As used in some models of our garden lighting.
- Fitting and contact is by 2 pins, 22mm long, pin spacing: 3mm, 8mm dia, 8mm pins.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
12V 20W	SL-2722	\$3.95	\$3.45	\$3.15

HANDLING HALOGEN GLOBES

Due to the high temperature of the halogen globes the glass envelope can crack unless it is very clean. If you leave grease or fingerprints on the globe, clean the glass with methylated spirits (preferably) before using.

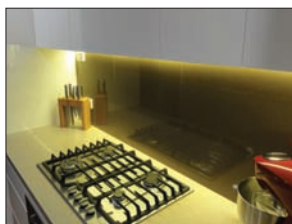
SOLID LED STRIP LIGHTING

Solid LED Strip Lights - 12VDC

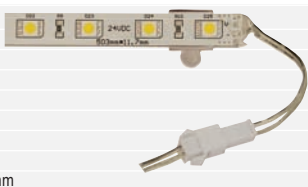
An efficient, bright and affordable LED lighting solution, which is safe and easy to install. Each strip features wide angle, high brightness SMD LEDs which are powered by 12VDC. They are fixed easily using the strong 3M brand self adhesive backing tape or mounted into a range of aluminium and plastic extrusions and diffusers available separately. Each 500mm length can be snapped into individual segments and are powered by either 12VDC or 24VDC.

Applications include under cabinet kitchen bench lighting, hallway or mood lighting, arine/caravan/motorhome lighting, commercial strip lighting, retail shop fit outs, and many many more. Available in 8mm and 11mm widths, 12VDC

- 8mm strips fitted with 3528 single chip SMD LEDs
- 11mm strips fitted with 5050 tri-chip SMD LEDs
- Strips can be snapped into individual segments and powered individually
- Strips can be integrated with our aluminium and plastic extrusions and diffusers



SPECIFICATIONS	ZD-0461	ZD-0552
Voltage	12VDC	12VDC
Colour	White	White
Current	200mA	500mA
Lumen output	150	390
LED quantity	30 x 3528	30 x 5050
No. of segments	10	10
Light angle	120°	120°
Dimensions	500 x 8mm	500 x 11mm



▲ LEDs	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
30x3528	Cool White	ZD-0461	\$14.95	\$13.35	\$10.35
30x5050	Cool White	ZD-0552	\$24.95	\$22.45	\$17.45

IP65 LED Lighting Module Strings - 12VDC

A very flexible and weatherproof (IP65) solution for low power lighting; use for backlighting of signs, illuminating stairwells, marine lighting, caravan lighting, etc. Each string is supplied as a 1m length of wire, with ten "modules" containing three high brightness SMD LEDs along the length of the string. You can cut the string to supply power to each module separately if you wish, allowing for a whole host of different applications. Simply provide 12VDC power and you are in business. Available in standard 3528-LED or ultra-bright 5050-LED versions, in cool white or blue colours depending on the model you choose.



SPECIFICATIONS	ZD-0590	ZD-0593	ZD-0594
Voltage	12VDC	12VDC	12VDC
Colour	Cool White	Blue	Cool White
Current	300mA Total	200mA Total	600mA Total
Lumen output	13.5/135 total	5.1/51 total	50/500 total
LEDs	10x (3x3528)	10x (3x3528)	10x (3x5050)
Light angle	120°	120°	120°
Dimensions	71x15x5.5mm	71x15x5.5mm	83x17x6mm

▲ LEDs	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
3x3528	Cool White	ZD-0590	\$16.95	\$15.25	\$11.85
3x3528	Blue	ZD-0593	\$16.95	\$15.25	\$11.85
3x5050	Cool White	ZD-0594	\$29.95	\$26.90	\$20.70

Linkable Aluminium LED Strip Lights - 12VDC

A stylish aluminium LED strip light kit. Suitable for caravan, marine, 4WD, auto and domestic applications. Connect multiple lights together with the included connectors to match your desired length and application. Supplied with a 100mm DC plug with lead for hardwiring, connecting adaptor and cable as well as a right angle adaptor. Screw mounting holes provided on the ends for easy installation in three different ways - 180°, 360° and 90°.



- Available in 48 and 84 LED linkable strips
- Suitable in-line Dimmer use ST-3938
- Colour: Cool white
- Voltage input: 12VDC
- Input: 3.5 x 1.35mm DC socket centre positive
- LEDs: 3528 SMD



SPECIFICATIONS	ST-3934	ST-3936
Power rating	12VDC 5W	12VDC 9W
Colour temperature	6000-6500K	6000-6500K
Lumens	280	520
Dimensions	324(L) x 30(W) x 12(H)mm	524(L) x 30(W) x 12(H)mm

▲ LEDs	Colour	Cat.	Qty 1+	Qty 3+	Qty 6+
48	Cool White	ST-3934	\$24.95	\$22.50	\$19.95
84	Cool White	ST-3936	\$39.95	\$35.90	\$31.90

LED Light Strips with Switch - 12VDC

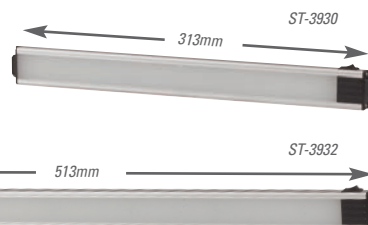
A quick and easy LED strip light solution. The LED strip is pre-assembled in the channel diffuser with an integrated switch encased in attractive anodised aluminium alloy. They feature a generous beam angle with evenly distributed light thanks to the frosted white diffuser. Great for use on window displays, restaurant foyers, showrooms, hotels, and caravan or RV applications. Four mounting screws are included for fast and easy installation. Available in 48 and 84 LED strips.

- Input: 3.5 x 1.35mm DC socket centre positive
- LEDs: 3528 SMD
- 4 x mounting screws included

Two models available:

48 LED LIGHT STRIP
ST-3930

84 LED LIGHT STRIP
ST-3932



SPECIFICATIONS	ST-3930	ST-3932
Power rating	12VDC 5W	12VDC 9W
Colour	6000-6500K	6000-6500K
temperature	Cool white	Cool white
Lumens	280	520
Dimensions	313(L) x 30(W) x 12(H)mm	513(L) x 30(W) x 12(H)mm

Suitable accessories:

IN-LINE DIMMER

Cat. ST-3938 - 12VDC/24VDC LED Dimmer Switch

SPARE PLUG WITH 100MM LEAD

Cat. ST-3933



▲ LEDs	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
48	313mm	ST-3930	\$24.95	\$22.45	\$19.95
84	513mm	ST-3932	\$34.95	\$31.45	\$27.90
1.3mm DC Plug on 100mm Lead		ST-3933	\$4.95	\$4.45	\$4.00

LED Aluminium Light Strip with Switch - 240VAC

A range of LED aluminium light in elegant aluminium strips. A simple and straight forward solution; each strip is terminated with a 240V plug and lead. No time consuming wiring and costly electricians are required. Simply plug in to the mains outlet and you have instant lighting solution. It has a built-in switch and is IP44 rated making it ideal for kitchen, under cabinets, book cases, bathroom lighting applications. Power consumption is significantly lower than fluorescent alternatives.

- LED Light strips meet SAA Safety approvals.



SPECIFICATIONS	ST-3946	ST-3948
Voltage input	240VAC	240VAC
IP Rating	IP44	IP44
Colour Temperature	Cool White	Cool White
LEDs	48	78
Lumens	650	950
Length	850mm	1200mm



▲ LEDs	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
48	850mm	ST-3946	\$54.95	\$49.45	\$43.95
78	1200mm	ST-3948	\$64.95	\$58.45	\$51.95

LED Dimmer Switch - 12VDC

Compact in-line dimmer suitable for dimmable LED lights. Rotate ON/OFF and to adjust light level. Supplied with DC jacks for easy connection between LED lights and your power supply unit

- Suitable for use with our LED strip lights ST-3930, ST-3932, ST-3934 and ST-3936

SPECIFICATIONS	ST-3938
Operating voltage	12VDC
Output current (max)	2A
Output power (max)	24W/48W
Dimming	0 to 100%
Colour	White
Dimensions	68(L) x 34(W) x 33(H)mm



▲	In-Line Dimmer	12V	Cat.	Qty 1+	Qty 3+	Qty 6+
			ST-3938	\$14.95	\$13.45	\$11.95

Accessories to suit Supersceded Extruded Aluminium Channel



▲	Channel Endcap (pack of 2)	Cat.	Qty 1+
		HH-8536	\$1.95

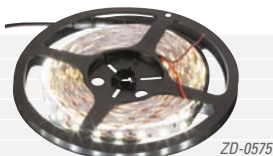
FLEXIBLE LED STRIP LIGHTING

Low Cost 5m Flexible Adhesive LED Strip Lights



When the absolute brightest light possible isn't what you are looking for, then these competitively priced flexible LED strips are what you are looking for. These strips still use the same super efficient 5050 SMD LED package as our ultra bright LED strips, but each LED has around 20-40% less light output than our ultra bright versions. Everything else is the same; there are 60 LEDs per metre, the flexible strip can be cut into sections every third LED to create separate strips to your desired length, the strip is backed with 3M brand adhesive tape, and each section had solder pads to enable you to wire up to your desired configuration. Sold as a full 5 metre reel in cool white and warm white colours, they are an excellent solution to thousands of lighting applications such as display cabinets, under bench lighting, accent lighting, caravan/camping, 4WD, mood lighting, etc.

SPECIFICATIONS	ZD-0575	ZD-0577
Voltage	12VDC	12VDC
Colour	Cool white	Warm white
Current per section	55mA	55mA
Current per metre	1100mA	1100mA
Lumens per metre	970lm	950lm



▲	Price per	Cat.	Qty 1+	Qty 3+	Qty 6+
Cool White	5m Roll	ZD-0575	\$69.95	\$62.95	\$55.95
Warm White	5m Roll	ZD-0577	\$69.95	\$62.95	\$55.95

Ultra Bright Flexible Adhesive LED Strip Lights



These flexible adhesive LED strips are made using the highest brightness 5060-SMD type LEDs, and feature 60 of these LEDs per metre of striping. Each strip comes as a 5m length, which can be broken down into individual 5cm sections with 3x LEDs that can be individually soldered to apply power. We understand that not all applications require a full 5m length, so we cut them to length and sell by the 5cm section, so that you can get the exact length you require. The strip itself is a flexible circuit board, backed with quality 3M brand adhesive tape to ensure a long term adhesion to your mounting surface. Powered by 12VDC. Two types available:

Note: Compatible with our Aluminium Channel System HH-8547, HH-8548 & HH-8549

SPECIFICATIONS	ZD-0570	ZD-0572
Voltage	12VDC	12VDC
Colour	Cool white	Warm white
Current per section	50mA	50mA
Current per metre	1000mA	1000mA
Lumens per metre	1200	1200
LEDs per section	3 x 5060	3 x 5060
Sections per metre	20	20
Dimension per section	50x10mm	50x10mm



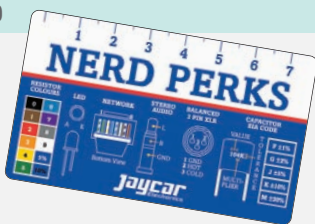
▲	Price per	Cat.	Qty 1+	1 metre	5 metres
Cool White	50mm segment	ZD-0570	\$2.95	\$43.00	\$145.00
Warm White	50mm segment	ZD-0572	\$2.95	\$43.00	\$145.00

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See front of catalogue for details



STRIP LIGHTING

TECH TALK

Our range of LED strip lights are made using some of the most common type of SMD LEDs used in LED lighting products; the 3528 type, and the 5050/5060 type. Their model designations actually come from their footprint dimensions:

3528 = 3.5x2.8mm, 5050 = 5.0x5.0mm, and 5060 = 5.0x6.0mm.

The 3528 type is a single LED emitter type in a very compact package, whereas the 5050 and 5060 type are commonly referred to as "triple-chip" due to having three LED emitters built into the one package.

The 3528 typically offers superior lumen performance per emitter and greater light efficiency than 5050/5060, but the 5060/5060 triple-chip types are more cost effective due to lower manufacturing costs and reduced production costs when built into a finished product.

RGB USB LED Strip with Remote

NEW
2017



Featuring 30 RGB LEDs along a 1m strip, for great light output with colour-changing dazzle. Attach it to your laptop, TV, a wall, wherever you like! Unlike many designs, this light strip can be trimmed down at any of the 30 points between the 30 LEDs, so you can "fit it" to whatever you like. A small remote inline with the power lead provides light mode, colour-change, and on/off controls. Powered from a spare USB port using the provided 1m USB lead.

- IP67 weatherproof
- Customisable length
- Bright RGB LEDs

SPECIFICATIONS	ZD-0571
Lumens	Up to 850 per metre (varies with colour)
Voltage	5-24VDC
Weight	60g
Dimensions	LED Strip: 10(W)mm x 1(L)m, USB Cable Length: 1m



1
YEAR
WARRANTY

▲	Length	Cat.	Qty 1+	Qty 5+	Qty 10+
RGB	1m	ZD-0571	\$19.95	\$17.95	\$15.95

RGB LED Flexible Strip Lighting Kit with Effects



An easy to setup RGB LED strip that can produce an array of dazzling effects. The device controls each bank of 3 x LED's individually to create effects that emulate flowing water, a shooting star, curtains opening, a colour gradient and more. Using the remote control you can switch all LEDs to white, red, green, blue, yellow, purple etc, adjust the brightness or set it up to cycle through all the different effects. Lighting applications include cinema foyers, nightclubs, casinos etc. The kit includes a 5m reel of high brightness RGB LEDs with 3M adhesive backing, a power supply remote control, and a joiner to connect LED strips together.

Kit contains:

- 5m RGB LED lighting strip
- Infrared remote control
- Power supply
- LED strip joiner

SPECIFICATIONS	SL-3954
Input voltage	12VDC
5m reel contains	150 X RGB LEDs
Controller dimensions	94(L) x 58(W) x 25(H)mm



NEW
LOW
PRICE

1
YEAR
WARRANTY

▲	Roll Length	Cat.	Qty 1+	Qty 3+	Qty 6+
RGB	5 metres	SL-3954	\$89.95	\$80.95	\$71.95

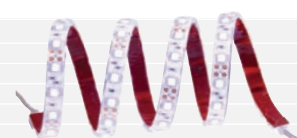
Ultra Bright IP67 Weatherproof LED Flexible Strip Lights

NEW
2017



Fully weatherproof yet flexible. They're made from an array of ultra high brightness 5050 SMD-type LEDs, 60 to each metre of strip light. Everything's encapsulated in a protective casing to keep the dust and water out. Weatherproof male / female connections are provided at either end. 12VDC powered. The 1m version can be daisy-chained (up to 5 together), and it's available as a single 5m run too. The 5m version should not be daisy chained, instead run an individual power connection to each 5m length.

SPECIFICATIONS	BOTH
Voltage	12VDC
Colour	Cool white
Current	1000mA
Lumens	850
LEDs	60x 5050
Dimensions	1000(L) x 10(W)mm



1
YEAR
WARRANTY

▲	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
Cool White	1m	ZD-0579	\$39.95	\$35.95	\$31.95
Cool White	5m	NEW	\$79.95	\$71.95	\$63.95

Cigarette Power Lead to Suit ZD-0576/79

Cigarette lighter power lead with IP67 2.1mm DC plug.

- Suits ZD-0576/79 LED flexible strip light
- 3m long



1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	PP-1981	\$19.95	\$17.95	\$15.95

LED DOWNLIGHT KITS - 240VAC

LED downlights have a lot of benefits over their traditional halogen counterparts, the biggest of which are their significantly lower power consumption (around 70 - 90% less), longer life expectancy (50,000 vs

2,000 hours) and significantly lower heat generation. Installation is generally easy for both new applications and retrofitting of globes. See our website for full details and specifications.

13W LED Downlight with Remote Controlled Colour Temp & Brightness Kit - 240VAC

These high lumen output, energy efficient LED Downlights are economical, environmentally friendly, and most importantly, user friendly. Each LED Downlight is rated to a low 13W but can produce an impressive output of up to 850 lumens. Each is supplied with a driver and a mains lead all already pre-terminated to each component when supplied. They are also controlled by remote, which allows you to control; The colour temperature from Warm White to Cool White to Daylight White, the brightness output from 100% down to 20% and to switch the power on or off. The remote control has four channels that allows you to pair off groups, each channel can pair up to 10 downlights, allowing a maximum system of 40 downlights paired on to 1 remote. Each system can be controlled by up to 6 remotes as well. You can also add some Wi-Fi connectivity to this Remote Controlled Downlight System with the Wi-Fi Control Box (SL-2338). When paired to the Wi-Fi Control Box, you can download a free app on your iOS® or Android® Smartphone or Tablet, and have a virtual remote control on your hand held device. These 13W LED Downlights is available in three designs, a Gymbal mount with a flushed surface, a Recessed surface and a Flush surface. All models made in die-cast aluminium for added durability. Ideal for both domestic and workplace applications.

GYMBAL MOUNTED DOWNLIGHT WITH REMOTE CONTROL KIT

Includes: Downlight, Driver, Mains lead, RF Remote Control
Cat. SL-2330

GYMBAL MOUNT

Includes: Downlight, Driver, Mains lead
Cat. SL-2332

RECESSED SURFACE

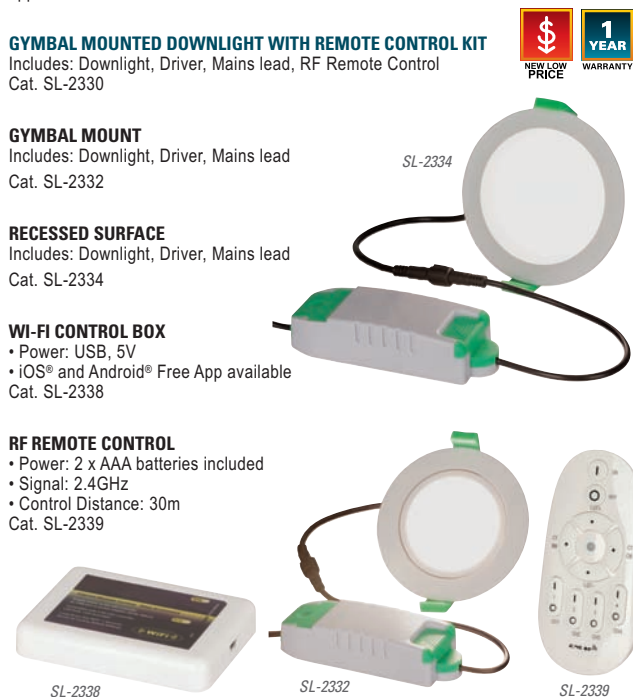
Includes: Downlight, Driver, Mains lead
Cat. SL-2334

WI-FI CONTROL BOX

• Power: USB, 5V
• iOS® and Android® Free App available
Cat. SL-2338

RF REMOTE CONTROL

• Power: 2 x AAA batteries included
• Signal: 2.4GHz
• Control Distance: 30m
Cat. SL-2339



SPECIFICATIONS	SL-2330	SL-2332	SL-2334
Power	13W	13W	13W
Input voltage	240VAC	240VAC	240VAC
LED type	SMD5630	SMD5630	SMD2835
Output	850 lumens	850 lumens	850 lumens
Output Angle	90°	90°	90°
Colour temperature	3000K-6000K	3000K-6000K	3000K-6000K
Dimmable	100%-20%	100%-20%	100%-20%
CRI	80Ra	80Ra	80Ra
Cut-out	90mm	90mm	90mm

▲	Cat.	Qty 1+
Downlight with Remote Control Kit	SL-2330	\$49.95
Gymbal Mount Downlight	SL-2332	\$39.95
Recessed Surface Downlight	SL-2334	\$39.95
Wi-Fi Control Box	SL-2338	\$59.95
RF Remote Control	SL-2339	\$14.95

8W Dimmable LED Downlight Kits - 240VAC

A true replacement for a 50W halogen downlight.

Featuring the same remote phosphor technology used in all Viribright LED lighting products, they offer excellent light output, efficiency, a wide beam output and high colour rendering for true colour illumination.

Fully dimmable with traditional electronic light dimmers or our LED dimmer PS-4084, suitable for a ceiling cut out of 75-92mm and supplied with a 2-pin mains lead.

Fantastic for DIY replacement of existing halogen downlights, or a totally new installation. Powered directly by 240VAC so there is no need for external LED drivers. Fully approved for electrical safety and even approved for the NSW 'ESS' and Victoria 'VEET' commercial lighting energy saving schemes (electricians take note!).

Available in warm white or natural white.



SPECIFICATIONS	SL-2300	SL-2302
Power	8W	8W
Input voltage	240VAC	240VAC
Lumens	550	700
Equivalent halogen	50W	50W
Colour	Warm white	Natural white
Colour temp.	2800K	4000K
Beam angle	80°	80°
CRI	>85	>85
Ceiling cutout	75-92mm	75-92mm

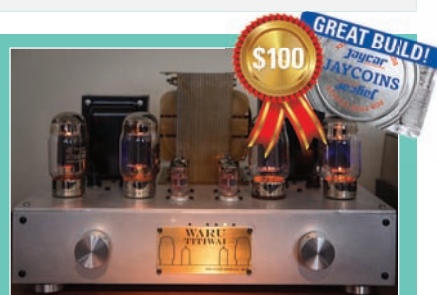
▲		Cat.	Qty 1+	Qty 2+	Qty 4+	
	8W	Warm white	SL-2300	\$29.95	\$20.00	\$17.50
	8W	Natural white	SL-2302	\$29.95	\$20.00	\$17.50

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

SHOW US YOUR BUILD COMPETITION

Adam, who shops at our Jaycar Wellington store built:



This is an large and heavy (27kg) 80 WPC home-built Valve amplifier, made with parts sourced from several sources including Jaycar.

All of the PCBs were hand-made using supplies from Jaycar.
Additional photos available here
<http://valve-audio.blogspot.co.nz/p/photo-gallery.html>

MONTHLY SPECIALS

Look out for our monthly promotions in store now!

RELATED PRODUCTS

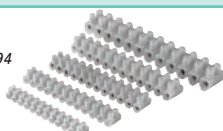
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MAINS CABLE

P162

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TERMINAL STRIPS

P150

FROM
\$24.95
QP-2268



AC DETECTOR

P192

FROM
\$1.85
HP-1200



CABLE TIES

P168

LIGHTING ACCESSORIES

Electronic Transformers for LED Lights

These electronic transformers are designed to be used with LED lighting products that take a 12V power source, for example our LED MR16 replacement globes, and provide the same kind of efficient power delivery and compact size as a normal electronic transformer. Electronic transformers that are intended for use with halogen downlights are not suitable for use with LED-replacement lighting products, since using them often causes flickering and dramatically reduces the life expectancy of the LED light. They deliver a constant 12VDC and feature short circuit, over temperature, over load and spike protection. Suitable for domestic and commercial applications, they are perfect for combining with our LED MR16 globes to replace those power-hungry halogen downlights.



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	10 Watt	MP-3360	\$24.95	\$22.45	\$19.95
	20 Watt	MP-3362	\$29.95	\$26.95	\$23.95

LED REPLACEMENT LAMPS

MR11 LED Replacement Light 15 x 2835 LEDs 120° - 12VAC/DC

High brightness MR11 LED globes used for lighting caravan & marine interiors, some desk lamps, and also used in retail shop display cabinets. High lumen level, available in cool and warm white.

SPECIFICATIONS	BOTH MODELS
Fitting	MR11
Input power	12VAC/DC, 2.2W
Brightness	230 lumens
Beam angle	120°
LED source	15x 2835 SMD LEDs
Dimensions	34(Dia.) x 29(D)mm



▲	Lumens		Cat.	Qty 1+	Qty 3+	Qty 6+
	230	Cool white	ZD-0650	\$14.95	\$13.45	\$11.95
	230	Warm white	ZD-0652	\$14.95	\$13.45	\$11.95

GU10 6W COB LED Downlight - 240VAC

The latest in high performance and high efficiency LED light sources with "chip-on-board" (COB), where multiple LED emitters are built into the one module. These high quality MR16 low-voltage LED downlight globes feature a Shineon 6W COB LED module that produces over 500 lumens of brilliant light. With such a bright output, these globes are a TRUE halogen replacement, providing equivalent or better light output! Built in a cold forged aluminium housing, heat dissipation is far superior to most LED downlight globes; ensuring you get the full 30,000+ hour life expectancy. If saving power and lasting a lifetime weren't enough, they are also dimmable! Use a standard triac dimmer (Clipsal® trailing edge recommended).

Limited Stock

SPECIFICATIONS	ZD-0625
Power consumption	6W
Fitting	GU10
Colour temp	5500K - Cool white
LED type	6W COB
Lens angle	60°
Dimensions	50(D) x 57(H)mm



▲	Lumens	Colour	Angle	Cat.	Qty 1+
	550	Cool White	60°	ZD-0625	\$24.95



SHOW US YOUR BUILD COMPETITION

O'Connor, who shops at our Jaycar store built:

In pursuit for affordable solar charging for my electric bicycle, I designed and built my own MPPT charger. There was no affordable off-the-shelf offering for custom voltage output MPPT charger (since my electric bicycle runs on 36V battery), especially when solar panel have lower voltage than batt

50mm Halogen Downlight Holder

Install your own halogen lamps in the ceiling with this holder. Simply drill a hole and this fitting pushes in and is held with clips. The halogen globe then pushes into the holder.

- Colour is white, complete with lamp base.
- For 51mm. Approx cutout is 60-65mm.
- Dimensions - total width at front 75mm. Depth 55mm.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-2738	\$6.95	\$6.25	\$5.50

Base

Base to suit both 35mm and 50mm lamps.

- Size 17(Dia.) x 9(H)mm
- Cable length 120mm
- Rating 100W 25V



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-2735	\$4.95	\$4.45	\$3.90

G4 LED Replacement Light, 120° - 12VAC/DC

An easy replacement for a G4 2-pin type halogen globe that uses significantly less power, and lasts a much longer. Great for benchtop lighting, reading lamps, and a whole host of other applications.

SPECIFICATIONS BOTH MODELS

Fitting	G4
Power	2.2W, 12VAC/DC
Light output	230 lumens
Lens angle	120°
LED source	15x 2835 SMD LEDs
Dimensions	27mm Dia.



▲	Lumens		Cat.	Qty 1+	Qty 3+	Qty 6+
	230	Cool white	ZD-0655	\$13.95	\$12.35	\$10.95
	230	Warm white	ZD-0657	\$13.95	\$12.35	\$10.95

G4 LED Waterproof Globes - 12VDC

Low wattage replacement G4 LED lamps suitable for use in recreational vehicles. Completely encapsulated in resin, making them waterproof.

SPECIFICATIONS	ZD-0564	ZD-0566
Colour	Warm white	Cool white
Power	1.5W	1.5W
Light output	100 lumens	110 lumens
Input voltage	12VAC/DC	12VAC/DC
Colour temp.	3000K	6500K
Dimensions	35(L) x 9.5mm	35(L) x 9.5mm



▲	Lumens		Cat.	Qty 1+	Qty 3+	Qty 6+
	100	Warm White	ZD-0564	\$14.95	\$13.35	\$11.95
	110	Cool White	ZD-0566	\$14.95	\$13.35	\$11.95

G4 LED Replacement Light, 360° - 12VAC/DC

When a full 360 degree light output is required from your G4 type globe, such as a garden light or lamp, these are the LED solution to save you power.

Limited Stock

SPECIFICATIONS	ZD-0656
Fitting	G4
Power	2W, 12VAC/DC
Light output	250 lumens
Lens angle	120°
LED source	18x 2835 SMD LEDs
Dimensions	27mm Dia.



▲	Lumens		Cat.	Qty 1+	Qty 3+	Qty 6+
	250	Warm white	ZD-0656	\$14.95	\$13.45	\$11.95

BUY IT ON THE WEB...

Shop for all these Jaycar Electronics products on our website - and check out our latest products and special offers!

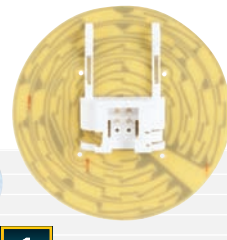
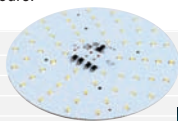


LED REPLACEMENT LAMPS FOR CARAVANS

LED Replacement Lamp for 2D Fluoros in Caravans

One of the most common lights used in caravans up until quite recently, is the 16W 2D fluoro. The problem with these is not only do they draw a lot of power for the light they produce, but they also blow very frequently, take a long time to "warm up", and they aren't very pleasant on the eye. This LED replacement lamp solves all that! The circular shape metal core PCB is backed with the same moulding as a normal 2D fluoro, so it fits into the same light socket - all you have to do is bypass the fluoro ballast and supply the lamp with 12VDC directly. No need to carry spare globes as the LED lamp is impervious to vibrations, and the LEDs are rated to last over 50,000 hours.

SPECIFICATIONS	ZD-0670
Input voltage	12VDC
Power	9W
Lumens	900
Beam	180°
LED type	60x2835 SMD
Dimensions	150(Dia.)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Cool White	ZD-0670	\$29.95	\$26.95	\$23.70

FLUORESCENT ADAPTORS

Fluorescent Tube Adaptors T5-T8

Easily convert traditional T8 fluorescent lighting to more energy efficient T5 series tubes. T5 tubes output the same light level as standard T8 tubes while consuming up to 40% less power. By comparison, LED replacements for fluorescent lights use similar power, and/or produce less light, and cost SEVERAL times more. With T8 tubes commonly found in large area lighting systems for offices, schools, small businesses and warehouses the savings achieved using these adaptors adds up very quickly. Installation couldn't be more simple - just remove the old T8 tube & starter, replace with the supplied starter-fuse, attach the two adaptor ends to your new T5 tube, install as per usual, & enjoy the power savings!

NOTE: Not suitable in T8 fittings with electronic ballasts.

Limited Stock

Two models available:

SL-2746 for replacing 20W 590mm (2ft) T8 tubes with 14W T5 tubes
SL-2748 for replacing 40W 1200mm (4ft) T8 tubes with 28W T5 tubes



▲	Cat.	Qty 1+
Replaces 20W Tubes	SL-2746	\$5.95
Replaces 40W Tubes	SL-2748	\$5.95

MAINS LED GLOBES 240VAC

240V Mains LED Light Globes

A range of mains LED light globes that are a true replacement for traditional lighting, offering brilliant lumen performance with wide, evenly spread light. Unlike many other types on the market with only 180° light angle, these lights have a truly even light output across a 270° output angle, making them better than traditional light globes in many cases.

- Available in warm white, natural white and cool white colours
- Bayonet or screw cap in 5W, 8W or 10W versions
- All models having a colour rendering index above 80
- All models are also dimmable with standard leading or trailing edge light dimmers, or you can use the Viribright dimmer switch, PS-4084.
- Typical payback period is just 9-12 months - see our online calculator to see how much you can save!



VIRIBRIGHT
The bright side of light



Buy in bulk
and save \$\$



Power	Lumens	Colour	Base	Beam Spread	Colour Temp.	Equivalent Traditional Globe	Cat.	Qty 1+	Qty 2+	Qty 4+
5W	400	Warm white	Bayonet	270°	2800K	40W	SL-2210	\$8.95	\$7.50	\$5.00
5W	400	Warm white	Screw	270°	2800K	40W	SL-2211	\$8.95	\$7.50	\$5.00
5W	450	Cool white	Bayonet	270°	6000K	40W	SL-2208	\$8.95	\$7.50	\$5.00
8W	500	Warm white	Bayonet	270°	2800K	60W	SL-2230	\$11.95	\$10.00	\$7.50
8W	500	Warm white	Screw	270°	2800K	60W	SL-2231	\$11.95	\$10.00	\$7.50
8W	650	Natural white	Bayonet	270°	4000K	60W	SL-2232	\$11.95	\$10.00	\$7.50
8W	650	Cool white	Bayonet	270°	6000K	60W	SL-2234	\$11.95	\$10.00	\$7.50
8W	650	Cool white	Screw	270°	6000K	60W	SL-2235	\$11.95	\$10.00	\$7.50
10W	900	Natural white	Bayonet	270°	4000K	75W	SL-2216	\$14.95	\$12.50	\$10.00

18W PAR38 Outdoor LED Spotlight Globes

Finally an energy efficient alternative to power hungry outdoor halogen spotlights, that doesn't take several minutes to "warm up" like a compact fluoro! Using just 18W of power, and producing over 1,300 lumens of light, this globe is a DIRECT replacement for the 150W halogen globes found in outdoor spotlights and driveway sensor lights.

- IP55 rated
- E27 Edison screw base



VIRIBRIGHT
The bright side of light

Buy in bulk
and save \$\$



Power	Lumens	Colour	Base	Beam Spread	Colour Temp.	Equivalent Traditional Globe	Cat.	Qty 1+	Qty 2+	Qty 4+
18W	1300	Warm white	Screw	90°	2800K	150W	SL-2225	\$29.95	\$20.00	\$17.50

2,600 Lumens 240V IP65 180 LED Light Fixture

This 240V LED light fixture is an ideal replacement for a traditional fluorescent light. It is energy efficient and produces a very bright 2,600 lumens. It is weatherproof and dustproof with its IP65 rating so it is suitable for both indoor and outdoor applications. Comes with mounting bracket and a 1.8m length of lead with mains plug.

SPECIFICATIONS	ST-3945
LED type	180 x SMD2835 Everlight
Driver efficiency	>0.88
CRI	>80
Colour temperature	5500K Cool White
Brightness	2,600 lumen
IP rating	IP65
Power	30W
LED lifespan	50,000 hours
Dimensions	675(L) x 135(W) x 93(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	ST-3945	\$99.95	\$89.95	\$79.95

LED INFORMATION

Power supply requirements for LED lamps or lighting modules, such as our MR16 LED downlight replacement globes, can vary considerably and it is essential that a suitable power supply is used. Switchmode transformers, or "electronic transformers" that are designed to run halogen lights, should not be used with LED lighting modules or lamps unless they are specifically certified to do so. LED lamps are compatible with all types of magnetic (linear) transformers, but not all types of switchmode transformers. Most halogen lamp switchmode transformers require a minimum load to function correctly & output a high frequency pulse train based on the load requirements.

As LED lamps draw a fraction of the current of an equivalent halogen lamp (typically ~1/10th), this usually results in problems such as flickering, strobing, or in some cases, no light at all. It may also reduce the life expectancy of the LED lamp. It is essential the maximum input voltage of the LED lamp or module is not exceeded and the power supply can deliver the necessary current required in a linear manner. If using switchmode or electronic power supplies, make sure they are designed for use with LED lamps, otherwise use a linear power supply or a DC output power supply.

TECH TALK



Sight & Sound.

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HDMI LEADS

HDMI LEADS					COMPARISON GUIDE				
Quality	Connectors		Length	Cat.	Quality	Connectors		Length	Cat.
Bargain	HDMI Plug	HDMI Plug	1.5m	WV-7914	Best	HDMI Plug	HDMI Plug	10.0m	WQ-7905
Good	HDMI Plug	HDMI Plug	1.5m	WV-7915	Best	HDMI (amp) Plug	HDMI (amp) Plug	10.0m	WQ-7430
Good	HDMI Plug	HDMI Plug	3.0m	WV-7916	Best	HDMI (amp) Plug	HDMI (amp) Plug	15.0m	WQ-7432
Good	HDMI Plug	HDMI Plug	5.0m	WV-7917	Best	HDMI (amp) Plug	HDMI (amp) Plug	20.0m	WQ-7434
Best	HDMI Plug	HDMI Plug	0.5m	WQ-7906	Best	HDMI (amp) Plug	HDMI (amp) Plug	30.0m	WQ-7436
Best	HDMI Plug	HDMI Plug	1.5m	WQ-7900	Best	HDMI (amp) Plug 4K	HDMI (amp) Plug 4K	10.0m	WQ-7437
Best	HDMI Plug	HDMI Plug	3.0m	WQ-7902	Best	HDMI (amp) Plug 4K	HDMI (amp) Plug 4K	15.0m	WQ-7338
Best	HDMI Plug	HDMI Plug	5.0m	WQ-7904					

Bargain HDMI Lead

A high quality HDMI lead, 99.99% pure copper, with triple layer RF and interference screening for the price of a high quality RCA audio cable.

- Supports 1080p
- HDMI 1.4 compatible
- Standard HDMI plug to plug



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV-7914	\$8.95	\$8.05	\$7.15

HDMI Lead with Rotating Plugs

HDMI cable with a difference - the plug on each end of the cable rotates through 180° to accommodate whatever installation challenge you have.

- 1.5m length
- HDMI 1.3 compliant



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ-7401	\$13.95	\$12.45	\$10.95

Economy HDMI 1.4 Leads

HDMI leads needn't cost an arm and a leg. If your budget doesn't extend too far, these leads are a cost-effective solution without compromising quality or performance.

All have gold plated connectors and have HDMI 1.4 Standard with Ethernet classification.



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV-7915	\$17.95	\$15.95	\$13.95
3.0m	WV-7916	\$21.95	\$19.45	\$17.45
5.0m	WV-7917	\$34.95	\$30.95	\$27.95

High Quality HDMI 2.0 Leads

Premium HDMI 2.0 High Speed with Ethernet cables feature heavily plated 24K gold plated connectors and oxygen-free heavy copper cabling. Also featured are high quality moulded strain-relief cord grommets and a braided sheath to protect against wear



CONCORD

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WQ-7906	\$19.95	\$17.95	\$15.95
1.5m	WQ-7900	\$25.95	\$22.95	\$20.45
3.0m	WQ-7902	\$34.95	\$30.95	\$27.95
5.0m	WQ-7904	\$44.95	\$39.95	\$35.95
10m	WQ-7905	\$64.95	\$57.95	\$51.95

HDMI Plug to Type C HDMI Plug

Type A plug to Type C or 'Mini' HDMI plug cable for connection to portable HDMI devices.

- Gold plated shield/24K gold contacts
- Internal dual strain relief
- Triple shielded
- Nitrogen gas injected dielectric
- RoHS & HDMI v1.3 compliant



CONCORD

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3.0m	WQ-7412	\$29.95	\$26.95	\$23.95

For our NEW PCB Mount HDMI Connectors see page 145

Amplified HDMI Leads

After about 5 metres HDMI signals tend to degrade. Pixels get missed and you may notice artefacts known as 'sparkles' on your TV when the receiving unit simply can't re-assemble the digital data correctly. These amplified HDMI leads overcome this limitation allowing you much longer HDMI cable runs.

- Powered from the HDMI port
- HDMI High Speed with Ethernet
- HDMI 1.4 Compatible / 4K 30Hz



CONCORD

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	WQ-7430	\$74.95	\$66.95	\$59.95
15m	WQ-7432	\$89.95	\$80.95	\$71.95
20m	WQ-7434	\$119.00	\$106.95	\$94.95
30m	WQ-7436	\$139.00	\$124.95	\$110.95

See page 77 for HDMI Extenders

Amplified HDMI Cables with Ethernet - 4K UHD Compatible

Very long HDMI runs are often unavoidable. Your best way to success is using an amplified cable, designed to compensate for any loss over the length of the run. This cable retains all the bandwidth you need while still providing an ultra-long cable. Absolute compatibility to HDMI standards, using top-quality oxygen-free-copper (OFC) and braided aluminium shielding, with gold-plated connectors. Suitable for Full HD, 4K, 3D, & UHD signals.



SPECIFICATIONS	BOTH	4K	1 YEAR
Bandwidth	18Gbps 4K @ 60Hz		
Frequency Range	25MHz-600MHz		
Supports	12-bit Deep HDR, Full HD, Full 3D, & 4Kx2K 60Hz		

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
10m	WQ-7437	\$79.95	\$71.95	\$63.95
15m	WQ-7438	\$99.95	\$89.95	\$79.95

RELATED PRODUCTS

FROM
\$4.95
HP-1210



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FROM
\$6.95
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TV WALL BRACKETS

P100

FROM
\$74.95
AC-1730



HDMI EXTENDERS

P76

HDMI ADAPTORS

DVI-D TO HDMI CABLE

- HDMI to DVI-D connector



CONCORD

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WQ-7407	\$19.95	\$17.95	\$15.95
3.0m	WQ-7406	\$29.95	\$26.95	\$23.95

DISPLAY PORT PLUG TO HDMI SOCKET

WQ-7422



All HDMI leads high speed with ethernet

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	WQ-7422	\$29.95	\$26.95	\$23.95
2.0m	WQ-7911	\$29.95	\$26.95	\$23.95

HDMI 1.4 TO MICRO D PLUG LEAD

HDMI to Micro D plug with 2m lead.

WQ-7911



HDMI Plug to Socket Swivel Adaptor

Connect HDMI cables where space is an issue such as wall mounted TV's with this adaptor which swivels up to 180°.

- Gold plated connectors



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-3647	\$12.95	\$11.35	\$10.35

HDMI Port/Buffer Protector

An intelligent device to help protect a HDMI port against static shocks, surges and lightning strikes. It also protects HDMI 5V out in case there is accidental short to GND and spark voltage current strike.

- HDCP compliant/EDID pass through
- Dimensions: 39(H) x 20(W) x 11(D)mm



Protect a HDMI port against static shocks, surges & lightning strikes with this device

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1738	\$24.95	\$22.45	\$19.95

Micro HDMI Plug to HDMI Socket Adaptor

Connects your Smartphone, camera or other device with micro HDMI socket to any TV with a HDMI connection.

- Colour: Black
- Gold plated connectors



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Micro HDMI to HDMI	PA-3649	\$9.95	\$8.75	\$7.75

HDMI Adaptors



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
HDMI Socket to Socket	PA-3640	\$16.95	\$15.25	\$13.55
HDMI Plug to DVI-D	PA-3642	\$14.95	\$13.45	\$11.95
HDMI Socket to DVI-D Plug Adaptor	PA-3644	\$14.95	\$13.45	\$11.95
Mini HDMI Plug to HDMI Socket Adaptor	PA-3645	\$9.95	\$8.75	\$7.75

HDMI Multimedia Travel Kit

A handy HDMI travel kit for connecting Tablets, Smartphones, cameras, or laptops to displays with HDMI ports. The kit consists of a standard 1.2m HDMI lead and two adaptors to convert one end of the lead to either a Mini HDMI or Micro HDMI plug. Includes a travel pouch for your lead and adaptors as well as a pouch for a Smartphone or camera.

- 1.2m HDMI lead with 24K Gold Plated Connectors
- HDMI 1.4 compatible / HDMI High Speed (10.2Gbps) with Ethernet
- Mini HDMI Adaptor: Mini HDMI Male (Type A) to HDMI Female (Type A)
- Micro HDMI Adaptor: Micro HDMI Male (Type D) to HDMI Female (Type A)
- Resolution up to 4092 x 2160 pixels & 48-bit colour and full HD 3D support
- Supports Dolby 7.1

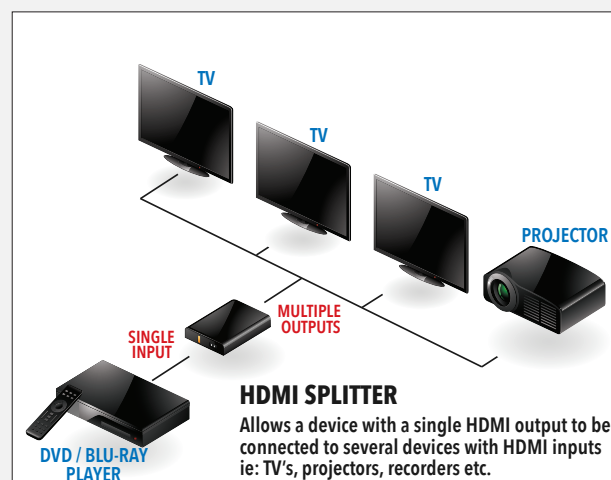


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	WC-7746	\$24.95	\$22.45	\$19.95

SPLITTERS & SWITCHERS...WHAT'S THE DIFFERENCE?

TECH TALK

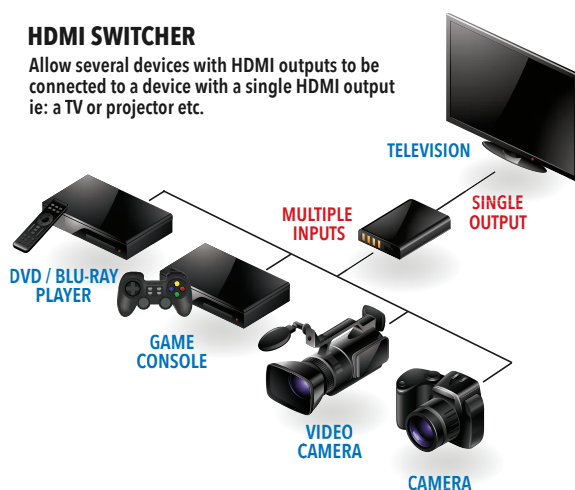
A SPLITTER will connect one HDMI device to several HDMI devices. Perfect for connecting a Blu-ray or DVD player to a couple of TVs...



A SWITCHER on the other hand allows you to choose between several inputs. For example connect your DVD player, Blu-ray player, Gaming Console and a Camera to your HDMI TV and choose between them.

HDMI SWITCHER

Allow several devices with HDMI outputs to be connected to a device with a single HDMI output ie: a TV or projector etc.



HDMI SWITCHERS

In the last few years there has been a subtle change in the way the world has reacted to interface technology. Most of us are old enough to remember interface technologies like S-Video, SCART, DVI, etc. These interfaces have come and gone without a ripple. The same cannot be said for USB, for example. Let's remember what USB stands for: Universal Serial Bus. Where would we be without the battery charging capabilities that USB brings us! USB & HDMI have had a profound effect on the way we connect technology together.

HDMI Switchers with Remote Control

Compact HDMI switchers for small to medium scale home theatre or gaming console setups. Using the one-touch button or the supplied remote control, you can switch your TV's display between a Blu-ray player, gaming console or other HDMI source with ease. Supports HDCP repeater functions, HDMI 1.4 at 4K, 2K resolutions, & also 3D video. Powered directly from HDMI so no external power supply is needed. The IR receiver is on a 1.5m cable so you put the switcher at the back of the TV cabinet if required.

- Support: HDMI 1.4
- Resolutions: All resolutions up to 4K x 2K @ 30Hz
- Power: 0.2W
- Supported formats: PCM2, 5.1, 7.1CH, Dolby 5.1, DTS5.1, Dolby TrueHD, DTS-HD

3 INPUT
Cat. AC-1705
Inputs 3 x HDMI
Outputs 1 x HDMI
Dimensions 87(L) x 59.5(W) x 19(H)mm

5 INPUT
Cat. AC-1706
Inputs 5 x HDMI
Outputs 1 x HDMI
Dimensions 146(L) x 70(W) x 24(H)mm



AC-1706



	Cat.	Qty 1+	Qty 4+	Qty 10+
3 Input	AC-1705	\$39.95	\$35.95	\$31.95

	Cat.	Qty 1+	Qty 4+	Qty 10+
5 Input	AC-1706	\$59.95	\$53.95	\$47.95

4 Input HDMI 2.0 Switcher with Remote Control

Connecting all your new AV equipment together can be a chore. But this switcher will accept up to 4 HDMI inputs, and feed them to your flat-screen, projector, or any other HDMI display. Supporting 4K resolutions with HDMI 2.0, as well as transport of Dolby® / DTS® audio. Select inputs using the included remote control or with the pushbutton on the unit. Plug and play, and easy to use.

SPECIFICATIONS
Cat. AC-1745
HDMI Specification 2.0
HDCP Specification 2.2
Video Data Rate Up to 18g
Video Resolution Up to 4K2K @ 60Hz
Power 5VDC (Mains Adaptor Included)
Dimensions 128(W) x 75(D) x 20(H)mm



HDMI 2.0



	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Input	AC-1745	\$69.95	\$62.95	\$55.95

HDMI 2.0 Switchers with Remote

High performance HDMI switchers with remote control. It supports all 3D TV formats in addition to all HDTV formats up to 4K x 2K. On top of that, the remote control gives complete control over the selection of sources and makes the device incredibly user friendly.

Available in two models:

- Support smart auto switch
- IR and panel button control

	AC-1760	AC-1762
SPECIFICATIONS		
Compliant with	HDMI2.0, HDCP2.2 and DVI1.0	HDMI2.0, HDCP2.2 and DVI1.0
Support video format	up to 4K2K @ 30Hz with 24bit RGB/YcbCR 4:4:4/YCBCR 4:2:2, and up to 4K2K @ 60Hz with 12 bit YCBCR 4:2:0	up to 4K2K @ 30Hz with 24bit RGB/YcbCR 4:4:4/YCBCR 4:2:2, and up to 4K2K @ 60Hz with 12 bit YCBCR 4:2:0
Support 3D frame sequential video format	up to 1080p@60Hz	up to 1080p@60Hz
Support high resolution VESA mode video format	up to QXSGA @ 60Hz	up to QXSGA @ 60Hz
Supports	LPCM 7.1CH, Dolby® TrueHD and DTS-HD Master Audio	LPCM 7.1CH, Dolby® TrueHD and DTS-HD Master Audio
Input	3 x HDMI	5 x HDMI
Output	1 x HDMI	1 x HDMI

	Cat.	Qty 1+	Qty 4+	Qty 10+
3 Input	AC-1760	\$69.95	\$62.95	\$55.95
5 Input	AC-1762	\$99.95	\$89.95	\$79.95



AC-1760



AC-1762

HDMI 2.0



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HDMI SPLITTERS

2 Way HDMI Splitter with UHD 4K Support

- 3D HDMI 1.4a support
- 3D video support
- ESD protection
- HDCP 1.4 compliant



SPECIFICATIONS	AC-1710
Inputs	1 x HDMI
Outputs	2 x HDMI
Supports resolutions	up to 4K (3840 x 2160) @30Hz, 1080p @ 120Hz, & 1080p 3d@60Hz
Supports deep colour	30-bit, 36-bit, and 48-bit per pixel
Supported Audio formats	DTS-HD, Dolby-true-HD, LPCM 7.1, DTS, Dolby-AC3, DSD
Power	5VDC 1A power supplied
Power consumption	5W
Dimensions	70(L) x 60(W) x 20(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Output	AC-1710	\$59.95	\$53.95	\$47.90

4 Way HDMI Splitter with UHD 4K Support

- 3D HDMI 1.4a support
- 3D video support
- HDCP 1.4 compliant



SPECIFICATIONS	AC-1712
Inputs	1 x HDMI
Outputs	4 x HDMI
Supports resolutions	up to 4K (3840 x 2160) @30Hz, 1080p @ 120Hz, & 1080p 3d@60Hz
Supports deep colour	30-bit, 36-bit, and 48-bit per pixel
Supported Audio formats	DTS-HD, Dolby-true-HD, LPCM 7.1, DTS, Dolby-AC3, DSD
Power	5VDC 1A power supplied
Power consumption	5W
Dimensions	145(L) x 70(W) x 23(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Output	AC-1712	\$109.00	\$89.95	\$79.95

HDMI 2.0 UHD Splitters

These HDMI UHD splitters with HDCP 2.2 are an advanced solution for splitting a single HDMI input to multiple HDMI outputs. They provide high performance audio and video output through HDMI cables up to 4K2K resolution and are capable of receiving and transmitting up to 9Gbps of bandwidth with no data loss. Supporting the latest features you can be assured of reliable and high quality HDMI distribution.



SPECIFICATIONS	AC-1766	AC-1768	AC-1769
Compliant With	HDMI2.0, HDCP2.2 & DV11.0		
Support Video Format	up to 4K2K @ 30Hz with 24bit RGB/YcbCR 4:4:4/YCbCR 4:2:2, and up to 4K2K @ 60Hz with 12 bit YCbCR 4:2:0		
Support 3D Frame Sequential Video Format	up to 1080p@60		
Support High Resolution Vesa Mode Video Format	up to QXSGA @ 60Hz		
Supports	LPCM 7.1CH, Dolby® TrueHD & DTS-HD Master Audio		
Input	1 x HDMI	1 x HDMI	1 x HDMI
Output	2 x HDMI	4 x HDMI	8 x HDMI

	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Output	AC-1766	\$79.95	\$71.95	\$63.95
4 Output	AC-1768	\$129.00	\$115.95	\$102.95
8 Output	AC-1769	\$199.00	\$178.95	\$158.95

HDMI SPLITTERS & SWITCHERS

COMPARISON GUIDE

	AC-1710	AC-1712	AC-1766	AC-1768	AC-1769	AC-1705	AC-1745	AC-1706	AC-1760	AC-1762	AC-1714	AC-1707
	Splitters					Switchers					Switcher Splitters	
HDMI Inputs	1	1	1	1	1	3	4	5	3	5	4	4
HDMI Outputs	2	4	2	4	8	1	1	1	1	1	2	1
Auto Switch			•	•			•		•	•		
Deep Colour Support (BITS)	48	48	24	24	24	16	2.4	16	24	24	48	16
HDMI Version	1.4a	1.4a	2.0	2.0	2.0	1.4a	2.0	1.4a	2.0	2.0	1.4a	1.4a
HDCP Version	1.4	1.4	2.2	2.2	2.2	1.4	2.2	1.4	2.2	2.2	1.4	1.4
Max Resolution	4K @ 30Hz	4K @ 30Hz	4K @ 60Hz	4K @ 60Hz	4K @ 60Hz	4K @ 30Hz	4K @ 60Hz	4K @ 30Hz	4K @ 60Hz	4K @ 60Hz	4K @ 30Hz	4K @ 30Hz
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HDMI SWITCHERS (CONTINUED)

4 Input Switcher with Digital & Analogue Audio Splitter

A high performance HDMI switcher which allows fast changing between up to 4 HDMI sources such as an Xbox, media player, DVD player etc. Ideal for the home, retail service-scape, lecture halls or other venues where broad HDMI source compatibility is required. Features a TOSLINK and 3.5mm stereo audio socket that will output audio to an array of sound system setups. Supports the latest HD resolutions up to 4K x 2K, 3D video, Dolby TrueHD and more. Operate using the one touch button on the switcher or via the remote control. LED indicators on the front panel show how many devices are connected and how many audio channels are being used (2.0CH, 5.1CH, or 7.1CH). 5VDC power supply included.

- HDCP repeater support
- Compliant with HDMI 1.4a, CTS 1.4a, DVI 1.0, & VESA DisplayPort 1.1a



SPECIFICATIONS	AC-1707
Inputs	4 x HDMI
Outputs	1 x HDMI
Resolutions	All resolutions up to 4K x 2K
Audio channels	2.0CH, 5.1CH, 7.1CH
Audio formats	Dolby TrueHD, DTS-HD Master Audio 7.1CH
Power	5VDC 1A (3W consumption)
Dimensions	146(L) x 70(W) x 24(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Input	AC-1707	\$119.00	\$106.95	\$94.95

4 x 2 Matrix Switcher Splitter with UHD 4K Support

Distribute up to four HDMI sources to 2 displays simultaneously. This will add a level of convenience for households that have two TVs but don't want to buy another set of Blu-ray players, set top boxes, etc. A single Blu-ray player connected to the matrix would output it's movie to two screens. This is also great for retail service scapes, shopping centres, reception areas and foyers. Has support for all resolutions up to UHD 4K x 2K as well as 3D support and EDID so switching sources will be fast with minimal interruption. An IR remote control for switching sources is supplied.

- Inputs: 4 x HDMI
Outputs: 2 x HDMI
Audio support:
- 2.0CH
 - 5.1CH
 - 7.1CH
 - DTS & Dolby Digital
 - DTS-HD & Dolby TRUE HD
- Video Support:
- HDMI 1.4
 - All resolutions up to UHD 4K x 2K & 3D, 297MHz/2.97Gbps per Channel
 - Supports 12 bit per channel deep colour
 - Dimensions: 85(W) x 192(D) x 26(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Input 2 Output	AC-1714	\$129.00	\$115.95	\$102.95

HDMI EXTENDERS

If you can get a slightly degraded digital signal early enough, you can amplify it (slightly) & extend the range of the cable with no loss. (Not like analogue boosters.) That's why we are happy to offer extenders up to 100m! This is simply not possible (in an economic way) with an analogue system.

	AC-1732	AC-1730	AC-1736	AC-1734
Transmits Over	Cat5e/ 6	Cat5e/ 6	Cat5e/ 6	Cat5e/ 6
Maximum Range	50m	30m	70m	100m
HDMI Version	1.3b	1.3b	1.4	1.3b
HDCP Version	1.1	1.1	1.4	1.1
Max Resolution	1080p	1080p	4K	1080p
TransmissionCables	1	2	1	1
Power Supply Included	•	•	•	•
Full Details On Page	77	76	77	77

COMPARISON GUIDE

HDMI SPLITTERS WITH UHD 4K SUPPORT

These splitters will distribute a HDMI source to multiple HDMI displays simultaneously. They are typically used in retail environments, clubs, data control centres etc. HDMI 1.4 compliant & full support for 4K UHD & 3D video. They also supports a breadth of audio formats including Dolby-AC3, DSD and more.

To learn more about HDMI see our primer at www.jaycar.com.au/hdmi



PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here!
Check our website for over 3,500 pages of data!

USB Powered HDMI Repeater

Even with the best cables on the market, you can only get so far with HDMI. This active repeater unit will amplify the signal and extend the distance up to 35m! It supports up to 4K at 30Hz, and great features like HDCP passthrough for plug and play operation. It's powered by the HDMI source, and can be boosted using power from a USB port. A micro 700mm USB lead is included.

- Up to 35m signal extension with a quality cable
- 20m range with no power
- 35m range with power (via USB)
- HDCP passthrough
- Supports 3D & high definition



SPECIFICATIONS	AC-1703
Power	MicroUSB Cable
Dimensions	52(L) x 26(W) x 13(H)mm
Weight	15g



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1703	\$34.95	\$31.45	\$27.95

HDMI Over 2 x Cat5e/6 - 30m with IR Extender

Transmit HDMI video/audio and IR over distances up to 30m over two common Cat6 cables. This is a reliable and cost-effective method for outputting a HDMI source to a distant display. Perfect for lecture halls, home theatres, or video conference rooms. Only 1 of the extenders require a 5VDC power supply (supplied).

- Embedded IR control path
- HDMI 1.3b and HDCP 1.1/DVI1.1 compliant
- Achieve 1080p up to 30m using Cat6 or 20m using Cat5e
- Can support longer distances (may incur resolution degrading)
- IR Frequency: 20kHz - 60kHz
- Video support: 480i / 480p / 720p / 1080i / 1080p
- Audio support: LPCM, Dolby True HD & DTS Master Audio, 7.1 compliant
- Equalisation: 8-level digital on RX
- Input: 1 x RJ45, 1 x 3.5mm (IR extender)
- Output: 1 x HDMI, 1 x 3.5mm (IR extender)
- Dimensions: 100(L) x 65(W) x 25(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1730	\$74.95	\$67.50	\$59.95

HDMI EXTENDERS (CONTINUED)

HDMI Over 1 x Cat5e/6 - 50m with IR Extender

Transmit HDMI signals over a single Cat5e/6 cable at distances up to 50m. This may be preferable to long runs of HDMI cable since HDMI cables are more expensive, troublesome to feed through walls, can't be bought as rolls and can't be crimped (or can with great difficulty!). Cat 5e/6 is cheap, flexible and mouldable making it ideal for extending HDMI for use in the home, in lecture theatres, or in retail environments. This model also transmits IR signals through the Ethernet cable allowing you to use your remote controls when not in front of the transmitting unit such as a Blu-ray player. Both transmitter and receiver requires a 5VDC power supply (supplied).

- Embedded IR control path
- HDMI 1.3b and HDCP 1.1/DVI1.1 compliant
- Achieve 1080p from the sources up to 50m using Cat6 or 40m using Cat5e
- Can support longer distances (may incur resolution degrading)



SPECIFICATIONS	AC-1732
Range	50m
IR Frequency	20kHz - 60kHz
Video support	480i / 480p / 720p / 1080i / 1080p
Audio support	LCPM, Dolby True HD & DTS Master Audio, 7.1 compliant
Input	1 x RJ45, 1 x 3.5mm (IR extender)
Output	1 x HDMI, 1 x 3.5mm (IR extender)
Dimensions	100(L) x 65(W) x 25(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	AC-1732	\$149.00	\$133.95	\$118.95

TCP/IP Cat5e HDMI Extender - 100m with IR Repeater

Utilise affordable and flexible Cat5e/Cat6 cables to join a HDMI source to a display up to 100m away. Doing so with a long HDMI cable can be expensive or result in display issues due to limitations with the HDMI standard. This device makes use of the TCP/IP protocol used for computer networking, so you get the added bonus of being able to split a HDMI signal to multiple displays through a common home router or switch. (requires extra receivers available separately). An IR repeater is built-in allowing full use of your remote control over these long distances. HDMI 1.3, HDCP 1.1 / DVI 1.1 compliant

- Supports deep colour up to 12 bits, IR re-transmitting so remote controls can be used
- Cable range for resolution: Cat 5e-20m, 1080p / Cat6-100m, 1080p



SPECIFICATIONS	AC-1734
Frequency bandwidth	2.25Gbps (single link)
Range	100m Cat6
IR Frequency	20kHz - 60kHz
Video support	480i / 480p / 720p / 1080i / 1080p
Audio support	LCPM, Dolby True HD and DTS Master Audio, 7.1 compliant
Equalisation	8-level digital on RX
Input	1 x RJ45, 1 x 3.5mm (IR extender)
Output	1 x HDMI, 1 x 3.5mm (IR extender)
Dimensions	100(L) x 65(W) x 25(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲	HDMI Extender AC-1734	\$179.00	\$160.95	\$142.95
	Spare TCP/IP HDMI Receiver AC-1735	\$99.95	\$89.95	\$79.95

HDMI UHD4K Over 1 x Cat 6 - 40m with IR Extender

Extend UHD4K HDMI signals to a display 40m away or 1080p signals up to 70m from a HDMI source. This extender converts standard HDMI signals to HDBaseT signals and transfers them over a common Cat 6 cable. This is more affordable than long HDMI cable runs and allows for greater distances between a display and source. Includes bidirectional IR control, so the source or display can be controlled from either end with your remote. Ideal for lecture theatres, shopping centres, or reception areas. HDMI 1.4 supported.

SPECIFICATIONS	AC-1736
Power consumption max	20W
IR Frequency	20kHz - 60kHz
Transmission distance	70 metres: 1080p at 60Hz 36bit; 3D 1080p at 30Hz 36bit, 40 metres: 1080p at 60Hz 48bit; 1080p at 120Hz 24bit; 3D 1080p at 60Hz 36bit; 4K x 2K@30Hz@24bit
Video support	480i / 480p / 720p / 1080i / 1080p / 4K
Audio support	LCPM, Dolby True HD & DTS Master Audio, 7.1 compliant
HDMI receiver	1x HDMI Female/1 x CAT6, 1x IR Transmitter/1x IR Receiver
HDMI transmitter	1x HDMI Female/1 x CAT6, 1x IR Transmitter/1x IR Receiver
Dimensions	65(W) x 100(D) x 25(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲	AC-1736	\$329.00	\$289.00	\$259.00

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HDMI CONVERTERS

HDMI to AV Composite Converter

Convert your digital HDMI signal to a standard composite audio/video signal. This is very handy for adapting a DVD player or gaming console to an older TV, since many of these new devices no longer offer analogue outputs. Supports PAL and NTSC standards. USB cable and power supply included to provide power to the unit.



NEW
2017

SPECIFICATIONS	AC-1773
Input Video Signal	HDMI
Output Video Signal	Composite RCA
Display Adjust	No
HDMI Input Resolution	640 x 480, 800 x 600, 1024 x 768, 1280 x 720, 1280 x 1024, 1360 x 768, 1600 x 1200, 1920 x 1080, 480i/p, 576i/p, 720p, 1080i/p
HDMI	1.3
HDCP Support	Yes (on input side)
Supported TV Standard	PAL/NTSC M.(NTSC-J)
Power	USB power adaptor and lead included
Dimensions	67(W) x 21(H) x 57(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲	AC-1773	\$69.95	\$62.95	\$55.95

HDMI to AV Composite Converter with Display Adjust

The converter also supports either NTSC or PAL systems. This converter provides high quality output image, and features an easy to use zoom function which allows you to adjust your display size to suit different configurations. Supports a wide range of resolutions ideal for using newer devices with existing legacy displays.

- Screen size adjustment button

SPECIFICATIONS	AC-1720
Input Video Signal	HDMI
Output Video Signal	Composite RCA (CBVS/Composite video & 2 x RCA audio)
Display Adjust	Yes
HDMI Input Resolution	800 x 600, 1024 x 768, 1280 x 720, 1280 x 1024, 1920 x 1080
HDMI	1.3
HDCP Support	Yes (on input side)
Supported TV Standard	PAL/NTSC
Power	5V power supply included
Dimensions	115(W) x 100(D) x 25(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲	AC-1720	\$129.00	\$115.95	\$102.95

HDMI CONVERTERS (CONTINUED)

Composite AV to HDMI Converter

A universal converter for analogue composite input to HDMI 1080p (60Hz). The analogue to digital conversion module will deliver a sharp and realistic image thanks to its processing technology. Power is delivered to the unit through the mini USB port. Enable old devices such as Sega master systems, DVRs, or VHS players to playback video and audio on more modern HDMI equipped displays.

- Supports HDMI 1080p 60Hz / 720p 60Hz output
- Requires 5VDC power through the mini USB port (power supply included)



SPECIFICATIONS	AC-1722
Input	Composite video and L/R Analogue audio (Yellow/White/Red RCA)
Composite input	PAL/NTSC3.58/NTSC4.43/SECAM/PAL-M/PAL-N
Output	HDMI
Dimensions	60(W) x 54(L) x 20(H)mm
Weight	80g



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1722	\$84.95	\$76.50	\$67.95

3G SDI to HDMI Converter

These converters allow conversion from HDMI to 3G SDI signals and vice versa.

Conversion of broadcast quality 3G SDI video signals means common HDMI equipped TVs and PC monitors can playback uncompressed 2.970Gbps digital footage from cameras supporting this format.

Saves you from needing to buy a purpose built display or video card that accepts 3G SDI signals. They are also backwards compatible with lower bandwidth SD and HD SDI signals. Security cameras are beginning to adopt 3G SDI standard due to the vastly superior image quality they can produce. The ability of SDI cables to run up to 100m without a booster makes them ideal for security use. This also provides an alternative way transmit HDMI over long distances, use AC-1729 as the transmitter with AC-1727 as the receiver.

Two models available:



3G SDI TO HDMI CONVERTER - AC-1727

- Operation at 2.970Gbps, 1.485Gbps and 270Mbps
- Supports SMPTE 425M, SMPTE 424M, SMPTE 292M, SMPTE 259M-C
- Equalized and re-clocked loop output integrated audio de-embedder for a maximum of 8 channel, 48 kHz audio
- Conversion from SMPTE 425M level B to Level A 1080p 50/59.94/60 4:2:2 10-bit

SPECIFICATIONS	AC-1727
Supported input/output resolutions	480i, 576i, 720p @ 50/60Hz, 1080i @ 50/60Hz, 1080p @ 24/25/30/50/60Hz
Input	Locking BNC SDI and DC
Output	HDMI
Power consumption	5W
Dimensions	80(L) x 43(W) x 23(D)mm



HDMI TO 3G SDI CONVERTER - AC-1729

- SDI interface operates at bitrates of 2.970 Gbit/s, 2.970/1.001 Gbit/s, 1.485 Gbit/s, 1.485/1.001 Gbit/s and 270 Mb/s.
- Supports SDI output up to 100 metres (3G-SDI), 200m (HD-SDI), or 300m (SD-SDI)

SPECIFICATIONS	AC-1729
Supported input/output resolutions	480i, 576i, 720p@50/59.94/60, 1080i@50/59.94/60, 1080p@23.97/24/25/29.97/30/50/59.94/60
Input	HDMI
Output	BNC SDI
Power consumption	5W
Dimensions	80(L) x 43(W) x 23(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	3G SDI to HDMI Converter AC-1727	\$109.00	\$89.95	\$79.95
	HDMI to 3G SDI Converter AC-1729	\$109.00	\$89.95	\$79.95

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4K HDMI to VGA & Stereo Audio Converter

Convert digital 4K UHD HDMI video and audio signal from your Blu-ray player or computer to standard VGA and RCA stereo audio signal for connection with your older style CRT/LED/LED monitors or projectors.

- No installation driver required
- Flexible and portable
- High quality scaling technology for input resolutions
- Multiple output resolution setting in OSD menu
- Compatible with HDMI1.4
- Support HDMI input resolution up to 4K x 2K@30Hz



HDMI 2.0

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1770	\$149.00	\$133.95	\$118.95

2 x HDMI to VGA/Component & Analogue/Digital Audio Converter

No need to upgrade to expensive LCDs or plasmas just yet. This converter can accept 2 HDMI sources, and features a switch to select which device you want to output.

Connect HDMI signals from DVD, Blu-ray or set top boxes and output to VGA, component video, with digital (TOSLINK) or analogue (3.5mm stereo) audio outputs for connection to almost any TV or PC monitor. Supports resolutions up to 1080p; output resolution is determined by input.

- Supports NTSC and PAL systems
- HDCP Support
- HDMI 1.3 compliant



SPECIFICATIONS	AC-1721
Input	2 x HDMI
Video Output	1 x YPbPr / 1 x VGA
Audio Output	1 x TOSLINK / 1 x 3.5mm Stereo
Supported resolutions	HDMI Input: up to 1080p, VGA Output: up to 1080p @ 60Hz, YPbPr Output: up to 1080p @ 50Hz / 60Hz, 5VDC power supply (included)
Dimensions	34(H) x 128(W) x 94(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1721	\$149.00	\$133.95	\$118.95

HDMI to VGA + Stereo Audio Converter

Convert a HDMI source such as a Blu-ray player to a VGA display. This unit will also convert the audio stream from HDMI to analogue audio which can be output to some speakers or headphones using the 3.5mm audio socket.

No power supply is required as it's powered by the HDMI signal.



SPECIFICATIONS	AC-1724
HDMI input formats	480p, 576p, 720p, 1080p
VGA video output format	480p (720 x 480), 576p (720 x 576), 720p (1280 x 720), 1080p (1920 x 1080)
Frequency	50/60Hz
Cable Length	175mm
Dimensions	55(L) x 41(W) x 17(H)mm



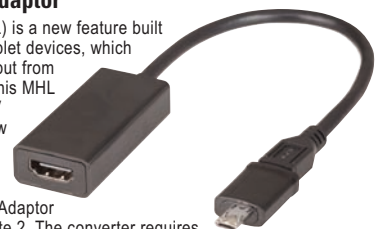
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1724	\$27.95	\$25.15	\$22.35

MHL to HDMI Converter with 11 Pin Samsung® Adaptor

Mobile High-Definition Link (MHL) is a new feature built into popular Smartphone and Tablet devices, which enables full HD 1080p video output from the Micro-B USB port. Connect this MHL to HDMI Converter to your HDTV (HDMI cable not included) to view full 1080p video at 30/60Hz or mirror everything on and from your MHL equipped device.

Supplied with an 11 Pin Micro-B Adaptor for use on Samsung® S3/4 or Note 2. The converter requires USB power (power cable not included) which can connect to a USB power adaptor or from a USB port on an HDTV.

- Supports resolutions up to 1080p @ 30/60Hz
- Supports device mirroring & most Android Smartphones & Tablets
- Lead Length: 90(L)mm
- Dimensions: 53(L) x 28(W) x 11(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	WQ-7424	\$24.95	\$22.45	\$19.95

HDMI CONVERTERS (CONTINUED)

VGA & USB Audio to HDMI Audio/Video Converter

Connect older PCs up to more modern displays such as LCD's and plasma screens. Just plug the VGA and USB cable into your PC and it will output a HDMI signal with audio/video. Doesn't get much simpler than that as the converter requires no external power.

- Fantastic for turning that old laptop or PC into a media centre for use on your big new flat screen



SPECIFICATIONS	AC-1639
VGA cable	300mm long
USB cable	1200mm
Supports	165MHz/1.65Gbps per channel
Powered	from USB port
Converter unit	80(L) x 55(W) x 11(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1639	\$59.95	\$53.95	\$47.95

VGA to HDMI Converter with Audio

Convert your standard VGA output into a digital HDMI signal. This unit also integrates your stereo audio into the HDMI so it will playback on receivers and displays designed to accommodate the audio too. USB powered for simplicity, plug and play operation.



SPECIFICATIONS	AC-1719
Resolution	Supports up to 1920 x 1080 (1080p)
Dimensions	100(W) x 62(D) x 20(H)mm (Excluding Cable)
Cable Length	400mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1719	\$79.95	\$71.95	\$63.95

VGA to HDMI Converter & Upscaler with Stereo Audio

This unit is ideal for older laptops and other devices with a VGA output, to display on a HDMI device. It also allows conversion of your analogue audio source into the HDMI digital stream. It's effectively plug and play. Power is provided by the 700mm mini USB cable supplied.

- HDMI upscaling up to 1080p
- Analogue audio encoding
- HD HDMI output



SPECIFICATIONS	AC-1718
Power	5VDC, 500mA
Input	VGA, RCA (AUDIO)
Output	HDMI
DTV/HD TV	480i/576i/480p/576p/720p/1080i/1080p
Video Amplifier Bandwidth	1.65Gbps/165MHz
Vertical Frequency Range	50/60Hz
Power Consumption(MAX)	5W
Weight	43g
Dimensions	60(L) x 54(W) x 20(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1718	\$89.95	\$80.95	\$71.95

HDMI AUDIO EXTRACTORS

HDMI Audio Extractor

Extracts the audio from HDMI and outputs to a 3.5mm socket or S/PDIF for connection to a set of speakers, home theatre audio system or amplifier. As some modern displays have less than desirable speakers, or no speakers at all, this will provide a simple way to connect audio up to a better sounding system. It supports video resolutions up to 4K x 2K and audio to 5.1CH digital. Comes with a 3.5mm to RCA audio cable.

- Input: 1 x HDMI
- Output: 1 x HDMI, 1 x 3.5mm audio socket, 1 x S/PDIF socket
- Supports video resolutions up to 4K x 2K
- HDCP support & HDMI 1.4 compliant
- Requires no external power supply
- Dimensions: 61(L) x 54(H) x 20(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1741	\$84.95	\$76.50	\$67.95

VGA & RCA Audio to HDMI 4K Upscaler Converter

The VGA to HDMI upscaler converter is a universal converter for analogue VGA input to HDMI 4K x 2K@60Hz output. The analogue to digital conversion in this module employs 10 bits maximal 297MSPS sampling, black/white level expansion, colour transition improvement, dynamic range expansion, blue stretch, auto-detect and auto-convert the VGA signal to HDMI output. It allows making the video come alive, delivering the sharpest and most realistic HD visuals. Supplied with a 5VDC, 1A mains power adaptor.

- No installation driver required
- Flexible and portable
- Advanced signal processing with great precision, colours, resolution and details
- Support multi-VESA standard VGA formats input
- Support HDMI 4Kx2K@60Hz, 4Kx2K@30Hz, 1080p@60Hz, or 720p@60Hz output



HDMI 2.0 4K UHD

SPECIFICATIONS	AC-1774
Input ports	1 x VGA, 1 x Earphone, 1 x mini USB
Output	1 x HDMI
VGA input resolution	640 x 480p@60Hz, 800 x 600@60Hz, 1024 x 768p@60Hz, 1280 x 720p@60Hz, 1280 x 768p@60Hz, 1280 x 1024p@60Hz, 1360 x 768p@60Hz, 1920x 1080p@60Hz, 4Kx2K@60Hz, 4Kx2K@30Hz, 1080p@60Hz, 720p@60Hz
HDMI output resolution	4Kx2K@60Hz, 4Kx2K@30Hz, 1080p@60Hz, 720p@60Hz
Power Consumption (Max)	3W
Dimensions	93(D) x 84(W) x 28(H)mm, 300g

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1774	\$149.00	\$133.95	\$118.95

Composite Audio Video to HDMI 4K Upscaler Converter

The AV to HDMI 4K Upscaler Converter is a universal converter for analogue composite input to HDMI 4Kx2K@60Hz output. The analogue to digital conversion in this module employs 10 bits maximal 297MSPS sampling, black/white level expansion, colour transition improvement, dynamic range expansion, blue stretch, auto-detect and auto-convert the composite signal to HDMI output. Making video come alive, delivering the sharpest, most realistic HD visuals available. Supplied with a 5VDC, 1A mains power adaptor.

- No installation driver required
- Flexible and portable
- Provide advanced signal processing with great precision, colours & resolution
- Support PAL, NTSC3.58, NTSC4.43, SECAM, PAL/M, PAL/N standard TV formats input
- Support HDMI 4Kx2K@60Hz, 4Kx2K@30Hz, 1080p@60Hz or 720p@60Hz output.



HDMI 2.0 4K UHD

SPECIFICATIONS	AC-1776
Input ports	1 x RCA (Yellow, White, Red), 1 x S-Video, 1 x Mini USB
Output	1 x HDMI
CVBS/S-VIDEO input	PAL, NTSC3.58, NTSC4.43, SECAM, PAL/M, PAL/N standard TV formats
HDMI output resolution	4Kx2K@60Hz, 4Kx2K@30Hz, 1080p@60Hz, 720p@60Hz
Dimensions	93(D) x 84(W) x 28(H)mm, 300g

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1776	\$149.00	\$133.95	\$118.95

HDMI Audio Signal Volume Leveller

Great audio means you need the best, and with advanced HDMI repeating and decoding the HDMI Volume Leveller is the perfect choice to fine-tune your listening experience. Also helps protect your valuable home theatre equipment from annoying and equipment-damaging noise spikes. It will even sort out those annoying fluctuations in volume while channel surfing or between the TV shows themselves and the advertisements (which always seem to be louder).

- Regulates TV, satellite, radio and DVD volume
- Mains power supply included
- HDMI in/out ports
- Boosts low & high-frequency content dynamically
- Dimensions: 100(W) x 64(D) x 23(H)mm



Limited Stock



▲	Cat.	Qty 1+
	AC-1615	\$39.95

AUDIO CONVERTERS

Coaxial/TOSLINK to TOSLINK/Coaxial Digital Audio Converter

This is a bi-directional converter for changing digital audio signals. Connect your coaxial or optical source, and you can connect optical or coaxial (or both) outputs! This unique design means it can also be used as a signal repeater - great for long digital audio connections. USB powered (mains power supply included).



NEW 2017

SPECIFICATIONS	AC-1592
Input	1 x Coaxial RCA / 1 x TOSLINK (optical)
Output	1 x Coaxial RCA / 1 x TOSLINK (optical)
Power Consumption (Max)	1W
Dimensions	66(W) x 20(H) x 55(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1592	\$54.95	\$48.95	\$43.95

Digital to Analogue Audio Converter

Converts your digital signal into analogue (RCA) stereo audio. Accepts either TOSLINK (optical) or digital coaxial, for compatibility with all digital sources.

- High quality sampling rate
- TOSLINK and coaxial input



NEW 2017

1 YEAR WARRANTY

SPECIFICATIONS	AC-1715
Sampling Rate	48kHz
Power	5VDC@1A (Mains adaptor included)
Weight	70g
Dimensions	63(W) x 42(D) x 26(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1715	\$64.95	\$57.95	\$51.95

AC3/DTS Digital Audio to Analogue Converter

Convert digital audio sources that use Dolby Digital AC3 Pro logic, DTS, PCM or other formats into 2.0 channel analogue audio output. This converter will accept input via TOSLINK/SPDIF or 1 x coaxial and output to 2 x RCA (L/R) and 3.5mm 2 channel analogue.



SPECIFICATIONS	AC-1658
Input	1 x TOSLINK/SPDIF, 1 x Coaxial
Output	2 x RCA (L/R), 1 x 3.5mm AUX
SNR	120dB
Degree of separation	85dB
Frequency response	20Hz - 20kHz
Dimensions	72(D) x 55(W) x 20(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1658	\$99.95	\$89.95	\$79.95

Analogue to Digital Audio Converter

Converts your analogue (RCA) stereo audio into digital signal. Outputs as either TOSLINK (optical) or digital coaxial, for compatibility with all digital inputs.

- High quality sampling rate
- TOSLINK and coaxial output



NEW 2017

1 YEAR WARRANTY

SPECIFICATIONS	AC-1716
Sampling Rate	48kHz
Power	5VDC@1A (Mains adaptor included)
Weight	70g
Dimensions	63(W) x 42(D) x 26(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1716	\$64.95	\$57.95	\$51.95

High Definition Audio Digital-to-Analogue Converter with USB Interface & Headphone Jack

The converter takes a TOSLINK optical, SPDIF coaxial or USB digital audio source and converts it to standard analogue left and right stereo audio. Allows for digital audio devices to be interfaced to analogue components such as a power amplifier, receivers, powered speakers or headphones via standard RCA line level output. It has a built in OP amp with adjustable volume control for earphones or headphones.

- Bridge legacy sound system with digital sources
- Support up to 24bit / 192kHz via to slink optical and SPDIF coaxial and USB interface
- Plug and play with Windows 7, XP & Vista & requires no additional drivers or software

Note: This DAC accepts 2 channel digital audio only, and works with any PCM stream with Dolby Digital or DTS disabled.

SPECIFICATIONS	AC-1633
Inputs	USB / TOSLINK optical / SPDIF coaxial (Switchable)
Outputs	left and right stereo audio RCA and 3.5mm stereo headphone jack (Built-in OP headphone amplifier)
Bit Rate	16-bit to 24-bit
Sample Rate	32kHz / 44.1kHz / 48 kHz / 96kHz / 192kHz (via TOSLINK/optical) 32kHz / 44.1kHz / 48 kHz / 96kHz (via USB)
Power supply	5VDC 1A (included)
Dimensions	111(W) x 105(D) x 30(H)mm



1 YEAR WARRANTY

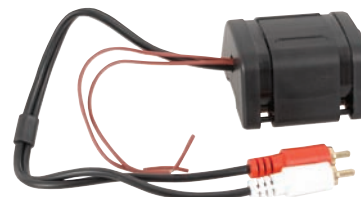
	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1633	\$99.95	\$89.95	\$79.95

Ground Loop Isolator (Stereo) RCA

Used to eliminate ground loop problems (usually manifested as a low frequency hum) in audio connections.

Earthing brown ground wires sometimes helps even more.

- Secure to a solid object with cable ties
- Very neat!



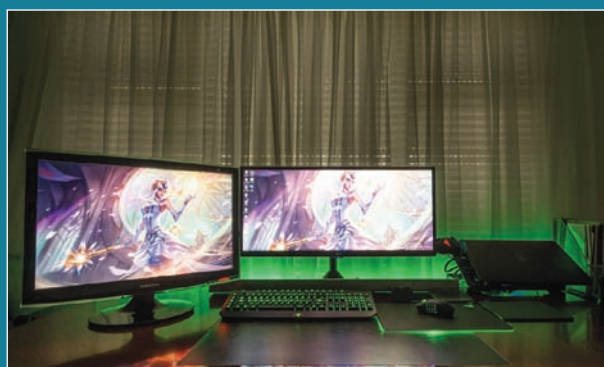
1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-3084	\$9.95	\$8.75	\$7.75

SHOW US YOUR BUILD COMPETITION

Vueey, who shops at our Jaycar Gepps Cross store built:

Needed a clean work station for my Photography business. With Jaycar's huge selection of tools, I was able to create a 'Cable Clean' work space with colour by using LED Strips. The stand for the middle monitor was perfect, great height for good posture. Laptop sits on a cooling dock to hide cables.



AV SELECTORS & SWITCHERS

2 Way AV Selector Switch

Switch between two composite video and stereo audio sources.

- Easy push-button operation.



Back of unit



SPECIFICATIONS	AC-1650
Channel Separation	60dB @ 1kHz
Cross-talk	70dB @ 1kHz
Dimensions	135(W) x 50(D) x 32(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	AC-1650	\$12.95	\$11.35	\$10.35

3 Way Audio Selector

Many audio amplifiers don't provide enough inputs for all your components. Solve that problem easily with this 3-way audio selector. It takes up to three stereo RCA inputs and provides a single stereo RCA output. Easy-to-use pushbutton front panel.

- 3 stereo pairs of RCA inputs
- Dimensions: 133(W) x 42(H) x 85(D)mm



Back of unit



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
3 Way	AC-1655	\$15.95	\$14.35	\$12.70

4 Way AV Selector

Connect up to four AV devices such as DVD players, VCRs or gaming consoles with a single output to your TV and switch between them as required.

- Inputs can be either composite or S-video.
- Easy-to-use pushbutton front panel.
- Composite and S-video inputs
- Dimensions: 190(W) x 112(D) x 47(H)mm



Back of unit



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way	AC-1652	\$24.95	\$22.35	\$19.70

3 Way Toslink Switch with IR

This versatile unit allows you to connect up to three TOSLINK sources to one TOSLINK input. Source selection is done via the supplied remote control, or the pushbutton on the side. An infrared receiver is also included so you can tuck the switch away with your equipment and still use the remote. The switch also features state-recall, which means your selected input is maintained even after the power has been switched off. Compatible with LPCM2.0, DTS, and Dolby AC3.

- Remote control or pushbutton operation
- Supports common digital audio formats

SPECIFICATIONS	AC-1594
Supported Audio Formats	LPCM2.0 / DTS / Dolby AC3
Peak Wavelength	650nm
Max Baud Rate	16Mbps
Dimensions	60(W) x 54(D) x 20(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
3 Way	AC-1594	\$39.95	\$35.95	\$31.95

AV AMPLIFIERS & PRE-AMPLIFIERS

4 Way AV Stereo Distribution Amplifier

Designed to split a stereo A/V signal across 4 channels without loss of image or sound quality. You can wire the rumpus room, outside entertainment area, bedrooms, lounge room or anywhere else you would like to access audio and video from a central source. You can also use it to record to up to four sources at the same time.

- 12VDC operated
- Mains plugpack included.
- Composite video input 1-3Vpp; 75 ohms
- Stereo audio input -20dB; 25k ohms
- 4 x Composite video outputs 1Vpp output; 75 ohms
- 4 x Stereo audio outputs
- RCA Input & output connectors
- Dimensions: 176(W) x 90(H) x 25(D)mm



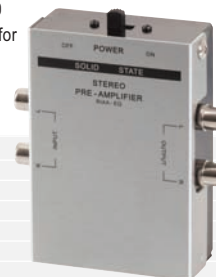
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1646	\$59.95	\$53.95	\$47.95

Battery Operated Phono Pre-Amp

A simple 9V battery powered preamp. Used for connecting products with magnetic pick-ups such as turntables to an amp.

- 2 RCA inputs & 2 RCA out.
- 1 x 9V battery required.

SPECIFICATIONS	AC-1649
Rated input level	3mV
Max input level	38mV
Input Impedance	50K ohms at 1,000Hz
Output Level	1.8VRMS
Output Impedance	50K ohms
S/N ratio	50dB
Dimensions	72(W) x 91(L) x 28(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1649	\$24.95	\$22.35	\$19.70

USB Recording Phonograph Pre-Amp

This fantastic device allows you to use your existing record player to record those fantastic vinyl tracks to USB! It also provides a preamp output to feed to your amplifier which may not have a "PHONO" input, when you're not recording to USB.

It works natively with both Windows® and MacOS® systems, and is effectively plug n play. Then you can record using your computer's audio capture utilities! Audio sampling is up to an impressive 48kHz so you're sure you're capturing everything in high quality.

- Digitise Records using PC or Mac®
- High quality preamp
- Native operating system support



SPECIFICATIONS	AC-1593
Recording	2 Channels
Sampling Rates	8kHz, 11.025kHz, 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz, and 48kHz
Compatibility	Windows & Mac®
Power	Via USB cable or power supply (not supplied)
USB	1.1
Dimensions	128(W) x 30(H) x 70(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1593	\$49.95	\$44.95	\$39.95



SHOW US YOUR BUILD COMPETITION

Samuel, who shops at our Jaycar online store built:



Powered by the Pixhawk open-source flight controller, my build boasts a loaded flight time of 45mins. While the majority of the components used in this build were individual solid state electronics, I enjoyed many hours soldering and developing what is now a solid UAV (after much trial and error).



AUDIO SENDER / RECEIVERS

Mini Bluetooth Receiver with USB Charging

This ingenious device provides Bluetooth® audio streaming on Hi-Fi and other audio playback devices without native Bluetooth®. The receiver recharges using the included USB recharge dock, then plugs into your 3.5mm audio socket. Then you simply pair your streaming device to the dongle and it's as if you connected a 3.5mm audio cable (but there's nothing to trip over!). The dongle itself includes playback controls, as well as a microphone, meaning you can use it as a full function hands-free device if you are paired with a smartphone. When it's running low on battery, simply pop it back into the USB charger and connect to a USB port to charge.

SPECIFICATIONS	AA-2105
Bluetooth® Distance	8m
Battery Capacity	100mAh 3.7V
Charging Time	2.5hrs
Talk Time	About 3hrs
Music playing Time	Up to 5hrs
Standby Time	20hrs
Working Interface	3.5mm Line Level Audio
Weight	26g
Dimensions	63(D) x 30(Dia.)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	AA-2105	\$29.95	\$26.95	\$23.95

Audio Receiver with Music Control and NFC/Bluetooth® Technology

A clever and convenient way to listen to your music or take calls on the go without having to be tethered to your phone or Tablet. It uses Bluetooth 4.0 and Apt-x coding technology for high quality stereo audio transmission, and NFC® (Near Field Communication) that makes it easy and fast to pair with your phone with one touch. It features a rechargeable battery, belt/pocket clip and 3.5mm stereo socket to connect your own earphones, or to the car radio (even the home Hi-Fi) using the supplied 3.5mm audio cable. The micro USB port allows you to charge the device (cable included) or to stream music to your computer.

- Multifunctional buttons for track and volume control, or to answer and end calls
- Suitable power supply MP-3544

SPECIFICATIONS	AA-2087
Bluetooth® version	4.0
Charge time	2-3 hours
Standby time	Up to 200 hours
Use time	8 hours (average)
Transmission range	10m
Dimensions	34(L) x 34(W) x 12.5(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth® + NFC	AA-2087	\$44.95	\$40.45	\$35.90

Audio Dongle with Bluetooth® Technology and Transmit Receive Functions

Connecting one device to another has never been easier. This multi-directional device can be setup to transmit, or receive. In transmit mode, it can stream an audio source to a Bluetooth® capable receiver or standalone Bluetooth speaker. In receive mode it can receive streaming from a Bluetooth capable computer, iPhone®, and more, to play on your stereo system, computer, and more. It retains full digital quality and has an internal rechargeable battery. It charges in around 2hrs, for approximately 12hrs send/receive time. It's tiny and weighs just 18g, so you can take it anywhere!

- Send / Receive Mode Selection
- Rechargeable and Portable
- Extremely Lightweight

SPECIFICATIONS	AA-2104
Operating Frequency	2.4GHz
Recharge Time	2hrs Approx.
Run Time	12hrs Approx.
Bluetooth® Standard	v4.1, Class II
Power	Internal 250mAh Lithium Battery
Recharge Method	USB Cable (Supplied)
Dimensions	44(W) x 44(D) x 12(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	AA-2104	\$69.95	\$62.95	\$55.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here!
Check our website for over
3,500 pages of data!



Wireless Digital Audio Sender

This 2.4GHz digital audio sender uses a 34 channel frequency hopping transmission so you get seamless crystal clear audio. It includes two power supplies, however, the receiver can also be powered by 2 AA batteries so you can use it on the go with headphones.

- Typical transmission range is about 30 metres
- Provided with two audio cables



	Cat.	Qty 1+	Qty 3+	Qty 6+
2.4GHz Wireless	AA-2102	\$109.00	\$97.95	\$86.95

Audio Receiver with NFC & Bluetooth® Technology

Stream music from your Bluetooth® or NFC® enabled Smartphone or Tablet directly to your stereo system or stand-alone speakers wirelessly. It is easy to setup and allows you to control the music from up to 10m away. Power can be supplied using the included 5V power supply or from a USB port on a stereo using 1.9m USB lead. A 1.8m male to male 3.5mm audio lead and a 3.5mm female to 2 x RCA lead are included to connect the receiver to the audio input of your speaker system.

- Bluetooth® 4.0v with SBC® support for high quality stereo audio
- Up to 10m transmission distance
- Can work with non-NFC® equipped devices
- A2DP Bluetooth® profile supported
- Audio stereo output
- Stores up to 8 device ID's



SPECIFICATIONS	AA-2108
Bluetooth® version	4.0
Power	5V (power supply included)
Dimensions	58(L) x 58(D) x 15(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth® + NFC	AA-2108	\$54.95	\$49.45	\$43.95

Wi-Fi Audio Receiver with TOSLINK & Stereo Output

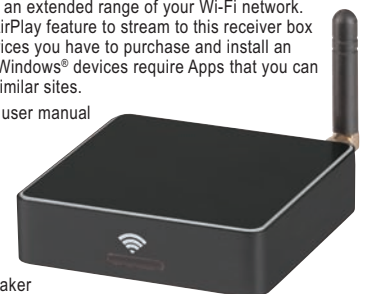
Convert your home stereo system into a Wi-Fi audio system. This receiver connects your stereo system and your existing Wi-Fi home network and allows you to access any device connected to your home's Wi-Fi network and to stream audio. It features a digital (TOSLINK) and analogue (3.5mm stereo) output.

With its WPS feature, you can have an extended range of your Wi-Fi network. iOS® devices can use the existing AirPlay feature to stream to this receiver box with App required. For Android® devices you have to purchase and install an App, that supports DLNA Protocol. Windows® devices require Apps that you can download from Google® Play or similar sites.

- * App/Software information listed in user manual

- Package includes:
- Wireless music receiver
 - Mains power adaptor
 - USB cable
 - RCA audio cable
 - Quick start guide

- Streaming local or online music from iOS®, Android® Device to speaker
- Support DLNA, AirPlay, Qplay
- Aluminium Case
- Output: TOSLINK or 3.5mm stereo



SPECIFICATIONS	AA-2110
Wi-Fi	IEEE 802.11 b/g/n Standard
Wi-Fi Encryption	WPA, WPA2, WPA2 Mixed
Audio sample rates	up to 96kbps
Audio SNR	96dB
Audio Format	AAC, MP3, WAV
Streaming Protocol	DLNA, Airplay, Qplay
Audio Out	S/PDIF or Stereo
Dimensions	80(L) x 80(W) x 20(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Wi-Fi	AA-2110	\$79.95	\$71.95	\$63.95

MONTHLY SPECIALS

Look out for our monthly promotions in store now!



Wireless 5.8GHz AV Sender/Receiver with Wideband IR Extender

Allows you to send your Pay TV reception (or any other video source) to any part of the house.

Includes a wideband IR remote control extender so it will cope with even the fussiest remote controls. 5.8GHz transmission frequency ensures freedom from wireless network interference.

Includes power supplies, AV cables 7 extension IR LED.

- Video: Composite or S-video
- Audio: Stereo RCA
- Range: 60m (line of sight)

AV SENDERS - WIRELESS

Wireless AV senders transmit video & 2 channel audio across short distances in, say, an office or home. They have been around for over 10 years now. You may be wondering why these still exist with the dominance of Wi-Fi, Bluetooth, etc.

They still have their place as they work fantastically well. They use digital RF encoding on the 2.4 and 5.8GHz bands and are ideal if you want to send an AV, Xbox®, PS3 etc. signal from one room to another room or several others.

Digital technology renders them quite immune to interference - both to you and from you. All models also feature infrared repeaters so you can change channel and operate other IR controlled gear from another room.

SPECIFICATIONS	AR-1913
Transmitter Output Level	13dBm
Operating Frequency	5790, 5828, 5847, 5866MHz
Power	12VDC 250mA
IR Transmitter/Receiver Operating Frequency	433.92MHz
IR Carrier Frequency	38/56kHz Selectable
Effective range	60m clear line of sight
Dimensions	110(W) x 105(D) x 38(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
Transmitter/Receiver	AR-1913	\$99.95	\$89.95	\$79.95
Spare Receiver	AR-1916	\$64.95	\$58.45	\$51.95

Wireless 5.8GHz 1080p HDMI AV Sender/Receiver Kit

The latest in our range of HDMI AV senders. Will allow you to send your pay TV reception (or any other HDMI video source) to any part of the house. Includes a HDMI pass-through so you can continue watching the video source on the parent television without having to use a splitter. 5.8GHz transmission frequency ensures freedom from wireless network interference. This unit includes IR remote extender capability and will support up to 1080p transmission standard.

- Video: HDMI up to 1080p
- Range: 30m (line of sight)
- Wi-Fi Standard: IEEE 802.11n WLAN
- Power Supply: 2 x 5VDC 1000mA included
- IR receiver and IR emitter probes included
- HDMI cables not included

SPECIFICATIONS	AR-1915
Frequency	Wi-Fi 5G band
Wi-Fi Standard	IEEE 802.11n WLAN
IR Return Range	Fullband 30-60kHz
Channel Bandwidth	20MHz / 40MHz
Distance	max 30m line of sight
Antenna Diversity	Dual PCB antenna for Wi-Fi
Dimensions	84(W) x 82(D) x 11(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
Transmitter/Receiver	AR-1915	\$399.00	\$359.00	\$319.00

AV SENDER - WIRED

Composite AV Cat5 Balun With IR Extender

Transmit crystal-clear audio and video signals over long distances via economical Cat5 cable. You can also use it for extending the range of your remote control. The wideband IR will receive signals from many types of remotes. Simply connect stereo audio and composite video to the transmitter and receiver, then hook up the IR sensors to your equipment.

- Signals can be transmitted up to 300 metres on UTP.

SPECIFICATIONS	QC-3681
Video	75 ohm unbalanced
Audio	600 ohm balanced
Bandwidth Video	DC - 12MHz
Audio	50Hz - 15kHz
Propagation distance	Up to 300m via UTP
Power requirements	12VDC 30mA max
Dimensions	64(W) x 73(D) x 29(H)mm



Spare IR Receiver for Cat5 Balun to suit - AR-1819



	Cat.	Qty 1+	Qty 4+	Qty 10+
Cat5 Balun	QC-3681	\$119.00	\$106.95	\$94.95
Spare IR Receiver	AR-1819	\$24.95	\$22.35	\$19.70

Powered Cat5 VGA Baluns with Audio

Able to transmit VGA and audio signals across a standard UTP or STP CAT5 cable for distances up to 300 metres. Adjust the brightness and skew of the image with the peak and gain options. Use for classrooms, lecture halls, auditoriums, retail kiosks, video info displays, tradeshow, etc.

- Ideal for VGA monitors or LCD projection screens.
- Supports up to 1920 x 1200 pixels.
- Supplied as a sender and receiver pair with plug packs included.

SPECIFICATIONS	AC-1671
Power requirements	5VDC for both sender and receiver
Vertical freq range	60/75/85Hz
Supported resolutions	640x480, 800x600, 1024x768, 1280x768, 1280x960, 1280x1024, 1600x900, 1600x1200, 1920x1080, 1920x1200
Includes	2 x right angle mounting brackets for send unit
Sender Dimensions	100(L) x 65(W) x 26(H)mm
Receiver Dimensions	81(L) x 43(W) x 23(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1671	\$129.00	\$115.95	\$102.95

REMOTE CONTROLS

Total Control 1 TV Remote

A single remote for a single TV. If you find yourself confused by all the multi-function remotes on the market, then this one is for you.

Nothing could be simpler!

Phone support is available from the vendor if you are unable to find the right code to suit your device. The phone number is printed on the packaging.



NEW 2017



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
1 Device	AR-1955	\$29.95	\$26.95	\$23.95

Replacement Remote for LG® TVs

If your original LG® remote is lost or broken, this drop-in replacement will provide full functionality with a familiar layout. No setup required, just add batteries. Familiar design, just like the original. Note: Some features may not be available on your particular TV, such as record / playback.

- Requires 2 x AAA batteries
- Approx 210mm long

Phone support is available from the vendor if you are unable to find the right code to suit your device. The phone number is printed on the packaging.



NEW 2017



▲	Cat.	Qty 1+	Qty 10+
LG®	AR-1958	\$59.95	\$53.95

Remote Control for Recordable Digital Pay TV

Replace your lost or broken pay TV remote control at a fraction of the cost of the genuine brand names, or just keep a spare. Including buttons to control the special record, live pause and playback features of the latest recordable digital Pay TV services, you will have complete control over your Recordable Pay TV subscription.

- Compatible with recordable pay TV set top boxes
- Operates all TV essential functions
- Includes controls for record, live pause & playback features
- Requires 2 x AA Batteries
- Approx 210mm long



NOT AVAILABLE IN NEW ZEALAND

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Australia	AR-1737	\$19.95	\$17.70	\$15.70

Total Control 8 Device Remote

Control up to 8 different devices including televisions, satellite receivers, set top boxes, DVD players VCRs, PVRs and more with this easy to use pre-programmed remote.

It is compatible with most popular brands and features just about all the buttons you will ever need.

Phone support is available from the vendor if you are unable to find the right code to suit your device. The phone number is printed on the packaging.



NEW 2017



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
8 Devices	AR-1954	\$39.95	\$35.95	\$31.95

Replacement Remote for Samsung® TVs

There's something about the design consideration given to original remote controls that isn't always replicated with universal units. With this replacement unit, it closely replicates all the original functionality and is a drop-in replacement. No setup required, just insert your batteries and you're ready to go. Note: Some features may not be available on your particular TV, such as record / playback.

- Requires 2 x AAA batteries
- Approx 206mm long

Phone support is available from the vendor if you are unable to find the right code to suit your device. The phone number is printed on the packaging.



NEW 2017



▲	Cat.	Qty 1+	Qty 10+
Samsung®	AR-1959	\$59.95	\$53.95

Remote Control for Sky TV NZ

The dog chewed on it, the baby slobbered on it, or it just stopped working. Whatever the reason your Sky satellite remote stopped working, this one is a direct replacement. Suitable for use with Sky and MySky HDi boxes.

- Controls TV and Sky
- Compatible with Sky and MYSKY HDi
- Infrared Learning
- Requires 2 x AA Batteries
- Approx 190mm long



NEW 2017



NOT AVAILABLE IN AUSTRALIA

▲	Cat.	
	AR-1957	NOT AVAILABLE IN AUSTRALIA

Universal Remote Control for Air Conditioners with Backlit LCD

A feature rich replacement for a lost or broken air-con remote. The unit has an easy to read blue backlit LCD for night control and all the buttons you'll need to control most functions of your air conditioner. Standard temperature controls, swing, vane, fan, timer, sleep mode and more are all featured on the control. This unit is compatible with most air conditioners capable of identifying with up to 2000 models. It also conveniently shows the time.

- Requires 2 x AAA batteries
- Includes mountable cradle for remote
- Switch between degrees Celsius and Fahrenheit display
- Dimensions: 165(L) x 55(W) x 25(D)mm



KlikR® Smartphone Controlled IR Remote Module

KlikR® is a small Bluetooth® product that can be stuck onto or right next to any infrared remote controlled electronic product, making it almost instantly controllable from your Android or iPhone®. The KlikR® mobile application - Kliknext® - allows you to organize all of your devices in your home, room by room. Using the app, you can then navigate through your remote controls in each room by swiping or by selecting from a horizontal list. If you want your family or friends to use KlikR®, there's no need for them to set it up again. Simply share your setup with a QR code from the application's home screen. Furthermore, all your setup and devices are backed up on the cloud in case you lose or change your phone.

Finally, KlikR® is more than a universal remote. KlikR® comes equipped with voice control so you can give commands directly to your smartphone. For example you can instruct the app to "Turn on the TV" or "Change the channel". KlikR® also has optional smart pausing and muting in case you get a phone call while you are watching a movie.

- Dimensions: 30 x 30 x 10mm (approx.)



NEW 2017

Note: iPhone® not included



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1956	\$49.95	\$44.95	\$39.95

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1731	\$24.95	\$22.35	\$19.70

AUTOMATIC ACCOUNT

For Government Departments,
Schools, Public Companies,
Radio & TV Stations

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Jaycar Electronics products on our
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products and special offers!



INFRARED (IR) EXTENDERS

USB IR Extender Kit

Easy to set up plug and play USB powered IR extender kit allows you to control AV devices behind closed doors or cabinets. Simply plug the USB into an available port of one of your AV devices and this feeds the power required for the attached IR receiver and transmitter. The multiple sensors inside the transmitter enable it to work effectively from a wide range of positions in front of your source product. This kit supports wide reception and the receiver range is up to 10 metres. Also works with multiple remote controls.



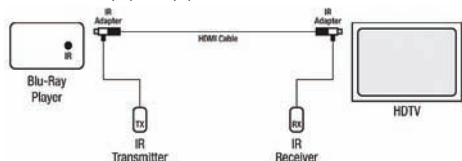
	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	AR-1834	\$24.95	\$22.45	\$19.95

Wideband Infrared Extender Over HDMI

This infrared extender repeats the IR signal from your remote control over the existing high-speed HDMI cable. You can control the AV source (Blu-ray, DVD player, etc.) in a cabinet or other room from in front of the TV screen. The two small HDMI adaptors attach at each end of the HDMI cable and derive their power from the HDMI port so no external power supply is needed. An IR receiver and transmitter on 1.5m leads plug into these adaptors. Handles 1080p Full HD 3D, and supports wideband IR signals from modern remote controls.

Package includes:

- 2 x HDMI Adaptors
- IR Transmitter with 1.5m cable
- IR Receiver Pigtail with 1.5m cable
- Dimensions: 20(W) x 15(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	AC-1744	\$49.95	\$44.90	\$39.90

Foxtel® IQ2 Compatible IR Remote Control Extender

Allows you to control your video source devices like set top boxes, a Blu-ray/DVD player, or even a HDMI switcher from another room. For those situations where you have a source transmitting to one or more TVs in different rooms. There is a receiver which plugs into the source device and a transmitter which picks up a signal from your remote control and relays it to the receiver.



SPECIFICATIONS	AR-1827
IR receiving range	>8m
Foxtel® IQ2 compatible	Yes
Transmission range	Up to 50m in clear sight
Carrier frequency	433.92MHz
Power supply	9VDC/150mA
Dimensions	70(L) x 50(W) x 20(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	AR-1827	\$54.95	\$49.45	\$43.90

4 Channel Compact Infrared Extender Kit

Some aesthetically pleasing home theatre setups may not be 100% functional. AV source devices may be hidden in a cabinet to create a clean minimalistic setup. In these scenarios, the signal from your remote control may be partially or completely blocked. To overcome this you can use this IR repeater extender kit to give you control of your devices. Plug the IR receiver in (to receive signals from your remote), then connect up to 4 devices to the emitter outlets. The 3M adhesive backing on the IR receiver the emitters can be mounted in an unobtrusive location. The kit is 4 channel so will accept up to 4 source devices.

The IR repeater unit includes:

- 2 x Dual IR emitter cables included
- 1 x IR receiver cable
- 1 x Mains plugpack
- 1 x Repeater/Extender
- Mounting holes & screws
- Cable length: 3m
- Dimensions: 03(L) x 32(W) x 16.5(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	AR-1828	\$59.95	\$53.95	\$47.90

IR Emitter Kit

Are your home entertainment components hidden away in a cabinet? This IR Emitter Kit solves the problem and is the perfect way to simplify the way you control your home entertainment system.

Many of today's home theatre / Hi-Fi systems are set up with the components hidden from view in a cabinet. Great for aesthetics and security, but what do you do when you want to use the remote? You have to keep the cabinet door open, which defeats the purpose of having the components in the cabinet in the first place. You can also use it to extend the range of your IR remote control to another room, or run all your remote controlled devices from a single sensor. This IR Emitter Kit acts like a hub, enabling you to interface all your IR remote controlled devices together and control them from a single sensor point. Up to six IR emitters to be connected to a single point and you can add extra emitters as you need.



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
2 Input IR Extender	AR-1812	\$79.95	\$71.95	\$63.95
Spare Emitters - Single	AR-1811	\$7.95	\$6.95	\$6.25
Spare Emitters - Dual	AR-1813	\$9.95	\$8.75	\$7.75
Spare IR Receiver	AR-1819	\$24.95	\$22.35	\$19.70

IR Remote Control Extender to Suit PayTV

Control a VCR, DVD/Blu-ray player, Hi-Fi and PayTV box (including most modern ones) from another room up to 30m away. This clever design uses a battery shaped transmitter that replaces one of the batteries in the remote control. With some electronic smarts it is able to repeat the Infrared signal to the receiver in the other room to control the AV equipment. The AAA sized transmitter includes a rechargeable battery, which lasts for months before needing a recharge, and a AA adaptor for use in larger remotes. The receiver can be either placed within 10m of the AV equipment or hidden away with the use of the small IR output cable. Note: Remote control & standard batteries not included

- Supplied with transmitter, AA adaptor, two rechargeable 2/3AA batteries, receiver with power supply and IR output cable.
- Foxtel® IQ compatible & MySky® NZ compatible

SPECIFICATIONS	AR-1821
Transmission range	30m
Frequency	433.92MHz
Channels	3
Dimensions	100(Dia.) x 54(H)mm



ADDITIONAL TRANSMITTER & BATTERIES

The AR-1821 Remote Control Extender has provision for a second remote control so you can control a second device, say a DVD or Blu-ray player, from the other room. Pack includes the transmitter, AA adaptor, two rechargeable 2/3rd AA batteries & IR output cable.

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Remote Control Extender	AR-1821	\$69.95	\$62.95	\$55.95
Additional TX Batteries	AR-1823	\$34.95	\$31.45	\$27.90

Bidirectional IR Extender over Cat5e - 100m

Control AV equipment remotely from either the source or receiver that are up to 100m apart. You could, for example, change the media playing on a DVD player in another room whilst standing in front of the TV, or control the TV volume from the room with the media player. Suitable for domestic and commercial applications including digital signage, demo stations or video conferencing etc, and features wide band IR circuitry to suit modern PayTV remote controls. The kit includes two extenders with IR LED on a 3m lead, and a mains power adaptor. All you need is standard Cat5e UTP network cable.

- Bi-directional IR path
- 2 x IR emitter output connections
- Single power supply on either TX or RX unit
- Each device can be TX or RX



SPECIFICATIONS	AR-1809
IR frequency range	30kHz to 60kHz
IR lead length	3 metres
Power	12V/200mA (Mains adaptors inc)
Dimensions	75(L) x 64(W) x 29(H)mm
Weight	28g

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	AR-1809	\$84.95	\$76.45	\$67.95

GIFT CARD

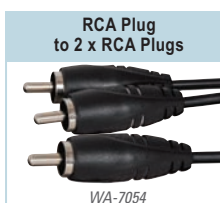
Can't find what to buy?
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let them choose!



AUDIO LEADS

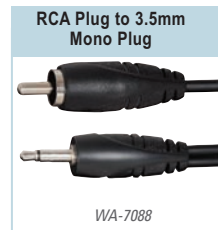
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All the leads shown on this page are packaged in attractive hanging storage blister display packs except where indicated.



Connector 1	Connector 2	Length	Quality	Cat.	Qty 1+	Qty 4+	Qty 10+
5 Pin DIN Plug	5 Pin DIN Plug	1.5m	Good	WA-7000	\$6.95	\$6.25	\$5.50
Mono 3.5 Plug	Mono 3.5 Plug	1.5m	Good	WA-7006	\$4.95	\$4.45	\$3.90
Stereo 2.5 Plug	Stereo 3.5 Plug	1.5m	Good	WA-7004	\$4.95	\$4.45	\$3.90
Stereo 3.5 Plug	Stereo 3.5 Plug	0.5m	Good	WA-7007	\$4.50	\$3.95	\$3.60
Stereo 3.5 Plug	Stereo 3.5 Plug	1.5m	Good	WA-7008	\$4.95	\$4.45	\$3.90
Stereo 3.5 Plug	Stereo 3.5 Plug	3.0m	Good	WA-7009	\$8.50	\$7.50	\$6.75
Stereo 3.5 Plug	Stereo 3.5 Plug	5.0m	Good	WA-7005	\$9.95	\$8.75	\$7.75
Stereo 3.5 Plug	Stereo 3.5 Plug	2.0m Slim	Good	WA-7500	\$9.95	\$8.75	\$7.75
Stereo 3.5 Plug	Stereo 3.5 Socket	3.0m	Good	WA-7010	\$6.95	\$6.25	\$5.50
Stereo 3.5 Plug	Stereo 3.5 Socket	3.0m Curly	Good	WA-7012	\$8.50	\$7.50	\$6.75
Stereo 3.5 Plug	Stereo 3.5 Socket	5.0m	Good	WA-7011	\$9.95	\$8.75	\$7.75
Stereo 3.5 Plug	2 x Stereo 3.5 Sockets	0.2m Slim	Good	WA-7504	\$9.95	\$8.75	\$7.75
Stereo 3.5 Plug	RCA x 2 Plug	1.5m	Good	WA-7014	\$6.50	\$5.75	\$4.95
Stereo 3.5 Plug	RCA x 2 Plug	3.0m	Good	WA-7015	\$8.95	\$7.95	\$6.95
Stereo 3.5 Plug	RCA x 2 Plug	5.0m	Good	WA-7017	\$9.95	\$8.75	\$7.75
Stereo 3.5 Plug	RCA x 2 Plug	2.0m Slim	Good	WA-7502	\$12.95	\$11.35	\$10.35
Stereo 3.5 Plug	RCA x 2 Socket	300mm	Good	WA-7016	\$5.50	\$4.90	\$4.30
Stereo 3.5 Socket	RCA x 2 Plug	300mm	Good	WA-7018	\$5.50	\$4.90	\$4.30
Mono 6.5 Plug	Mono 6.5 R/A	3.0m	Good	WA-7024	\$6.95	\$6.25	\$5.50
Mono 6.5 Plug	Mono 6.5 Socket	5.0m	Good	WA-7030	\$8.95	\$7.95	\$6.95
Mono 6.5 Plug	XLR 3 Pin Socket	6.0m	Good	WA-7040	\$19.95	\$17.95	\$15.95
XLR 3 Pin	XLR 3 Pin Socket	2.0m	Best	WA-7041	\$11.95	\$10.70	\$9.50
XLR 3 Pin	XLR 3 Pin Socket	6.0m	Best	WA-7042	\$19.95	\$17.95	\$15.95
XLR 3 Pin	XLR 3 Pin Socket	10.0m	Best	WA-7043	\$29.95	\$26.95	\$23.95
RCA Plug	RCA Plug	1.5m	Good	WA-7050	\$5.95	\$5.25	\$4.75
RCA Plug	RCA x 2 Plug	1.5m	Good	WA-7054	\$5.95	\$5.25	\$4.75
RCA x 2 Plug	RCA x 2 Socket	1.5m	Good	WA-7070	\$6.50	\$5.75	\$4.95
RCA x 2 Plug	RCA x 2 Socket	3.0m	Good	WA-7072	\$9.95	\$8.75	\$7.75
RCA x 2 Plug	RCA x 2 Socket	5.0m	Good	WA-7074	\$11.95	\$10.70	\$9.50
RCA Plug	RCA 2 x Socket	300mm	Good	WA-7056	\$4.95	\$4.45	\$3.90
RCA Socket	RCA x 2 Plug	300mm	Good	WA-7058	\$4.95	\$4.45	\$3.90

AUDIO LEADS

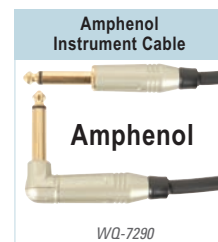
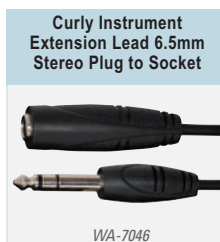


SPEAKON CABLES

The standard for speaker connections in PA & sound reinforcement. Buy the cable & connectors and put them together, or buy these excellent ready-made cables.

Connector 1	Connector 2	Length	Quality	Cat.	Qty 1+	Qty 4+	Qty 10+
RCA x 2 Plug	RCA x 2 Plug	1.5m	Good	WA-7062	\$6.95	\$6.25	\$5.50
RCA x 2 Plug	RCA x 2 Plug	3.0m	Good	WA-7064	\$8.95	\$7.95	\$6.95
RCA x 2 Plug	RCA x 2 Plug	5.0m	Good	WA-7066	\$10.95	\$9.75	\$8.75
RCA x 2 Plug	RCA x 2 Plug	10.0m	Good	WA-7068	\$13.95	\$12.35	\$10.95
RCA x 2 Piggyback	RCA x 2 Plug	1.5m	Good	WA-7090	\$9.95	\$8.75	\$7.75
RCA x 2 Piggyback	RCA x 2 Plug	3.0m	Good	WA-7091	\$11.95	\$10.70	\$9.50
RCA Plug	RCA Socket	3.0m	Good	WA-7084	\$6.50	\$5.75	\$4.95
RCA Plug	Mono 3.5 Plug	1.5m	Good	WA-7088	\$4.95	\$4.45	\$3.90
RCA x 4 Plug	RCA x 4 Plug	1.5m	Good	WA-7078	\$8.50	\$7.50	\$6.75
RCA x 4 Plug	RCA x 4 Plug	5.0m	Good	WA-7080	\$14.95	\$13.35	\$11.70
Speakon Plug	Speakon Plug	5.0m	Good	WA-7100	\$29.95	\$26.95	\$23.95
Speakon Plug	Speakon Plug	10.0m	Good	WA-7102	\$44.95	\$40.45	\$35.90
Speakon Plug	6.5mm Plug	3.0m	Good	WA-7108	\$16.95	\$14.95	\$13.35
Speakon Socket Extender				PA-3689	\$12.95	\$11.35	\$10.35

INSTRUMENT LEADS



Connector 1	Connector 2	Length	Quality	Cat.	Qty 1+	Qty 4+	Qty 10+
Stereo 6.5mm Plug	Stereo 6.5mm Socket	6.0m Curly	Good	WA-7046	\$10.95	\$9.85	\$8.75
Mono 6.5mm Plug	Mono 6.5mm R/A Plug	6.0m Curly	Good	WA-7026	\$11.95	\$10.70	\$9.50
Mono 6.5mm Plug	Mono 6.5mm R/A Plug	6.0m	Best	WQ-7290	\$34.95	\$30.95	\$27.95
Stereo 6.5mm Plug	Stereo 6.5mm Plug	6.0m	Best NEW	WQ-7291	\$34.95	\$30.95	\$27.95
XLR Plug	XLR Socket	6.0m	Best	WQ-7292	\$44.95	\$40.45	\$35.90
XLR Plug	XLR Socket	9.0m	Best NEW	WQ-7296	\$49.95	\$44.95	\$39.95

CABLE TESTER

Roadies Cable Tester

Simply plug the cable under test and turn the rotary switch. The LED array gives you an instant go/no-go status of each conductor path in the cable. With bullet-proof all-metal construction, it's ideally suited to the ruff and tumble world of rock 'n' roll, but is also suitable for any technician working with cables. Faster and much easier than a multimeter. Requires 1 x 9V battery. (use SB-2423)

Tests the following cables:

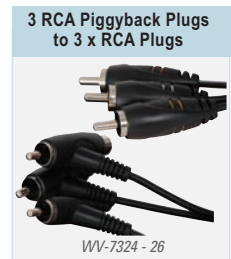
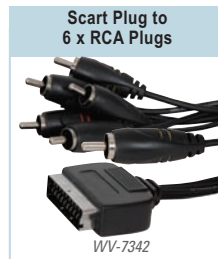
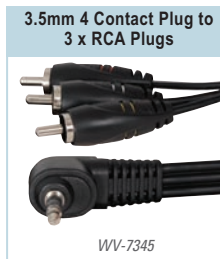
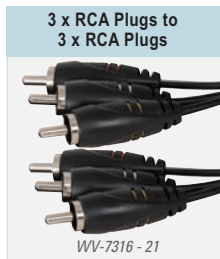
- Speakon 4, 8P • 1/4" mono & TRS • DIN 3, 5, 7, 8P • XLR 3, 5P
- Phono (RCA) • USB • RJ45 • Dimensions: 190(L) x 98(W) x 35(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0405	\$79.95	\$71.95	\$63.95



VIDEO LEADS



FLEXIBLE COAX LEADS



Super flexible coax leads with multi-stranded core and a flexible outer casing. Its flexibility makes it easier to run through cabinets and along skirting boards, etc.

- Available in RG59 or RG6 quad shielded coax cable with nickel plated, moulded F59 plugs.



IN A HURRY?

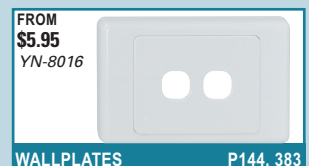
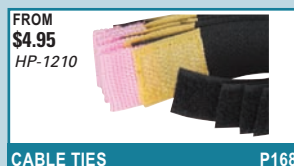
Buy online, collect in-store!

To check if your local store offers "Click & Collect" visit our website



Use	Connector 1	Connector 2	Length	Quality	Cat.	Qty 1+	Qty 4+	Qty 10+
AV	RCA x 3 Plug	RCA x 3 Plug	1.5m	Good	WV-7316	\$8.95	\$7.95	\$6.95
AV	RCA x 3 Plug	RCA x 3 Plug	3.0m	Good	WV-7318	\$12.50	\$10.95	\$9.95
AV	RCA x 3 Plug	RCA x 3 Plug	5.0m	Good	WV-7320	\$14.95	\$13.35	\$11.70
AV	RCA x 3 Plug	RCA x 3 Plug	10.0m	Good	WV-7321	\$29.95	\$26.95	\$23.95
AV	3.5 (4 pole) Plug	RCA x 3 Plug	1.5m	Good	WV-7345	\$11.95	\$10.70	\$9.50
Video	S-Video Plug	S-Video Plug	1.5m	Good	WV-7330	\$9.95	\$8.75	\$7.75
Video	S-Video Plug	S-Video Plug	3.0m	Good	WV-7332	\$12.95	\$11.35	\$10.35
Video	S-Video Plug	S-Video Plug	5.0m	Good	WV-7334	\$14.95	\$13.35	\$11.70
Video	S-Video Plug	S-Video Plug	10.0m	Good	WV-7336	\$24.95	\$22.35	\$19.70
AV	Scart Plug	RCA x 6 Plug	1.5m	Good	WV-7342	\$11.95	\$10.70	\$9.50
AV	RCA x 3 Piggybank	RCA x 3 Plug	1.5m	Good	WV-7324	\$13.95	\$12.35	\$10.95
AV	RCA x 3 Piggybank	RCA x 3 Plug	3.0m	Good	WV-7325	\$15.95	\$14.35	\$12.70
AV	RCA x 3 Piggybank	RCA x 3 Plug	5.0m	Good	WV-7326	\$19.95	\$17.95	\$15.95
Video	BNC Plug	BNC Plug	1.5m	Good	WV-7300	\$9.95	\$8.75	\$7.75
Video	RCA Plug	RCA Plug	1.5m	Good	WV-7304	\$6.95	\$6.25	\$5.50
Video	RCA Plug	RCA Plug	3.0m	Good	WV-7306	\$7.95	\$6.95	\$6.25
Video	BNC Plug	RCA Plug	1.5m	Good	WV-7308	\$7.95	\$6.95	\$6.25
Video	F Plug	F Plug	1.5m	Good	WV-7386	\$8.95	\$7.95	\$6.95
Video	F Plug	F Plug - White	1.5m	Good	WV-7366	\$8.95	\$7.95	\$6.95
Video	Coaxial Plug	F Plug	1.5m	Good	WV-7384	\$4.95	\$4.45	\$3.90
Video	Coaxial Plug	F Plug - White	1.5m	Good	WV-7365	\$4.95	\$4.45	\$3.95
Video	Coaxial Plug	F Plug	5.0m	Good	WV-7385	\$9.95	\$8.75	\$7.75
Video	F Plug	F Plug - RG-59	10m	Best	WV-7450	\$19.95	\$17.95	\$15.95
Video	F Plug	F Plug - RG-59	20m	Best	WV-7452	\$29.95	\$26.95	\$23.95
Video	F Plug	F Plug - RG6 Quad Shielded	10m	Best	WV-7454	\$29.95	\$26.95	\$23.95
Video	F Plug	F Plug - RG6 Quad Shielded	20m	Best	WV-7456	\$39.95	\$35.90	\$31.90
Video	F Plug	F Plug	1.5m	Best	WV-7390	\$7.95	\$6.95	\$6.25
Video	F Plug	F Plug	3.0m	Best	WV-7392	\$10.95	\$9.75	\$8.75
Video	F Plug	F Plug	5.0m	Best	WV-7394	\$14.95	\$13.35	\$11.70
Video	F Plug	F Plug	10.0m	Best	WV-7396	\$24.95	\$22.35	\$19.70

RELATED PRODUCTS

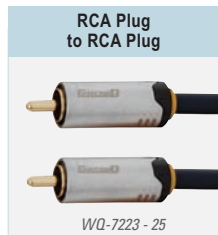
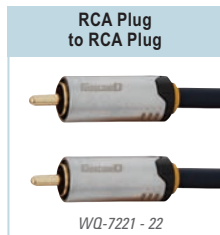


HIGH QUALITY AV LEADS

A premium range of audio video cables at the right price. High performance non-migration interconnection cables utilising 99.96% pure OFC.

- 24 carat hard gold plated contacts
- 100% shielded metal bodied plugs
- Positive finger grip & moulded cable strain relief.
- Recommended for digital or analogue signals
- Clean and clear image reproduction
- For home theatre, Hi-Fi, video, TV/VCR/editing, DVD, satellite and any application which deserves the absolute best in AV performance
- Will stand up to the quality of units that sell up to 4-5 times more elsewhere (apart from the expensive packaging!)

CONCORD



Use	Connector 1	Connector 2	Length	Quality	Cat.	Qty 1+	Qty 4+	Qty 10+
Audio	Stereo 3.5 Plug	RCA x 2 Plug	1.5m	Best	WQ-7206	\$17.95	\$15.95	\$14.35
Audio	Stereo 3.5 Plug	RCA x 2 Plug	3.0m	Best	WQ-7208	\$18.95	\$16.95	\$14.95
Video	RCA Plug	RCA Plug	0.5m	Best	WQ-7221	\$10.95	\$9.75	\$8.75
Video	RCA Plug	RCA Plug	1.5m	Best	WQ-7222	\$11.95	\$10.70	\$9.50
Video	RCA Plug	RCA Plug	3.0m	Best	WQ-7223	\$14.95	\$13.35	\$11.70
Video	RCA Plug	RCA Plug	5.0m	Best	WQ-7224	\$17.95	\$15.95	\$14.35
Video	RCA Plug	RCA Plug	10.0m	Best	WQ-7225	\$24.95	\$22.35	\$19.70
Audio	RCA x 2 Plug	RCA x 2 Plug	0.5m	Best	WQ-7227	\$16.95	\$14.95	\$13.45
Audio	RCA x 2 Plug	RCA x 2 Plug	1.5m	Best	WQ-7226	\$18.95	\$16.95	\$14.95
Audio	RCA x 2 Plug	RCA x 2 Plug	3.0m	Best	WQ-7228	\$24.95	\$22.35	\$19.70
Audio	RCA x 2 Plug	RCA x 2 Plug	5.0m	Best	WQ-7230	\$29.95	\$26.95	\$23.95
Video	S-Video Plug	S-Video Plug	5.0m	Best	WQ-7217	\$16.95	\$14.95	\$13.45
Video	S-Video Plug	S-Video Plug	10.0m	Best	WQ-7220	\$29.95	\$26.95	\$23.95
Video	Coaxial Plug	Coaxial Plug	1.5m	Best	WQ-7200	\$14.95	\$13.35	\$11.70
Video	Coaxial Plug	Coaxial Socket	1.5m	Best	WQ-7202	\$14.95	\$13.35	\$11.70
AV	RCA x 3 Plug	RCA x 3 Plug	1.5m	Best	WQ-7234	\$34.95	\$31.45	\$27.90
AV	RCA x 3 Plug	RCA x 3 Plug	3.0m	Best	WQ-7236	\$44.95	\$40.45	\$35.90
AV	RCA x 3 Plug	RCA x 3 Plug	5.0m	Best	WQ-7237	\$49.95	\$44.90	\$39.90
AV	RCA x 3 Plug	RCA x 3 Plug	10.0m	Best	WQ-7235	\$59.95	\$53.95	\$47.90
Video	RCA x 3 Plug	RCA x 3 Plug	0.5m	Best	WQ-7239	\$29.95	\$26.95	\$23.95
Video	RCA x 3 Plug	RCA x 3 Plug	1.5m	Best	WQ-7238	\$34.95	\$31.45	\$27.90
Video	RCA x 3 Plug	RCA x 3 Plug	3.0m	Best	WQ-7240	\$44.95	\$40.45	\$35.90
Video	RCA x 3 Plug	RCA x 3 Plug	5.0m	Best	WQ-7250	\$49.95	\$44.90	\$39.90
Video	D15HD Plug	RCA x 3 Plug	1.5m	Best	WQ-7259	\$9.95		
AV	3.5 (4 pole) Plug	3.5 Socket	2m	Good	WV-7349	\$9.95	\$8.75	\$7.75
AV	3.5 (4 pole) Plug	3.5 Plug	2m	Good	WV-7347	\$9.95	\$8.75	\$7.75
AV	3.5 (4 pole) Plug	3.5 x 2 Socket	300mm	Good	WA-7020	\$6.95	\$6.25	\$5.50
AV	3.5 (4 pole) Socket	3.5 x 2 Plug	150mm	Good	WA-7022	\$6.95	\$6.25	\$5.50

ADDICTED TO SOCIAL? WE'RE HERE TO CHAT - WHATEVER YOUR CHANNEL!



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SMA, DVI & FIBRE OPTIC LEADS



Use	Connector 1	Connector 2	Length	Quality	Cat.	Qty 1+	Qty 4+	Qty 10+
Video	SMA Plug	SMA Plug	1.0m	Best	WC-7800	\$19.95	\$17.95	\$15.95
Video	SMA Plug	SMA Plug	3.0m	Best	WC-7802	\$29.95	\$26.95	\$23.95
Video	SMA Plug	SMA Plug	5.0m	Best	WC-7804	\$44.95	\$40.45	\$35.95
Video	DVI-D Plug	DVI-D Plug	2.0m	Best	WC-7590	\$29.95	\$26.95	\$23.95
Video	DVI-D Plug	DVI-D Plug	5.0m	Best	WC-7591	\$44.95	\$40.45	\$35.95
Video	DVI-A Plug	D15HD Plug	2.0m	Best	WC-7594	\$24.95	\$22.35	\$19.70
Audio	TOSLINK Plug	TOSLINK Plug	0.5m	Good	WQ-7293	\$8.50	\$7.50	\$6.75
Audio	TOSLINK Plug	TOSLINK Plug	1.0m	Good	WQ-7294	\$9.95	\$8.75	\$7.75
Audio	TOSLINK Plug	TOSLINK Plug	2.0m	Good	WQ-7295	\$14.95	\$13.35	\$11.70
Audio	TOSLINK Plug	TOSLINK Plug	5.0m	Good	WQ-7297	\$24.95	\$22.35	\$19.70
Audio	TOSLINK Plug	TOSLINK Plug	1.0m	Best	WQ-7301	\$15.95	\$14.35	\$12.70
Audio	TOSLINK Plug	TOSLINK Plug	3.0m	Best	WQ-7302	\$24.95	\$22.35	\$19.70
Audio	TOSLINK Plug	TOSLINK Plug	5.0m	Best	WQ-7303	\$39.95	\$35.90	\$31.90

DVI, HDMI & OPTICAL CABLE/ADAPTORS

DVI Adaptor

- Female to female
- Compatible with DVI-I single dual link, DVI-single/dual link & DVI-A male
- All pins wired straight through



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-0896	\$14.95	\$13.35	\$11.70

TOSLINK Adaptor Female / Female

- Enables shorter optical leads to be extended



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-3575	\$6.95	\$6.25	\$5.50

TOSLINK Female to Optical 3.5mm Male



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-3574	\$5.95	\$5.25	\$4.75

AV WALLPLATES

Ideal for HDMI extenders.

Brushed Rear Cable Entry Wallplate

Allows you to run pre-terminated cables through a wall. Brushed entry and concave extrusion will help protect against dust and keep the cables secured.

- Great for use with HDMI, Cat5, component/composite, S-video, and a variety of other cables (excluding VGA)



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	PS-0296	\$9.95	\$8.75	\$7.75

Brushed Cable Entry Wallplate

Single gang brush plate for cable entry through walls etc. Suitable for pre terminated cables going to LCD or plasma screens, and particularly suited to HDMI cables as they can't be split, spliced or field-terminated. An ideal solution if you only have a short cable run.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	PS-0291	\$9.95	\$8.75	\$7.75

Standard Blank Wallplate

Allows you to run cables through a wall cavity. It is also compatible with our obsolete range of AV connector wallplates (PS-0481 through to PS-0486).

- Fits standard household power point bases and brackets



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	PS-0480	\$2.50	\$2.21	\$1.95

Recessed Cable Entry Wallplate

Create a neat cable entry/exit point for terminated or non-terminated audio and video leads. The wallplate design allows cables to be passed through walls with minimal fuss and the inner curved recessed design ensures maximum safety.

- Mounting screws included.
- Screw thread size: 2.5mm

SMALL

- Dimensions 124(W) x 82(H) x 36(D)mm

Cat. PS-0295

LARGE

- Dimensions 124(W) x 82(H) x 55(D)mm

Cat. PS-0297



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Small	PS-0295	\$6.95	\$6.25	\$5.55
Large	PS-0297	\$7.95	\$7.15	\$6.35

HDMI 1.4 Wallplate with Flylead

Give your media station or projector installation a neat finish with this handy multimedia wallplate. Available with a variety of video, audio, and data terminals to suit analogue and digital systems, all connections are double-sided for easy installation. Simply run a pre-made cable within the wall cavity or cabinet and plug it into the back of the wallplate.

- Standard GPO mount wallplate with concealed screws
- Plate dimensions 116(H) x 75(W) x 12(D)mm
- Approximate cavity depth required 60mm
- 150mm flylead behind plate on USB & HDMI connections
- VGA video
- Stereo 3.5mm audio



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
HDMI 1.4	PS-0281	\$14.95	\$13.35	\$11.70

See page 139, 383 for Keystone Plates & Connectors

TV WALLPLATES & ACCESSORIES

Metal Mounting Brackets for Large Wallplates

Suitable for plasterboard walls.



▲ Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3033	\$2.95	\$2.60	\$2.30

Large Blank Wallplate

This is a standard power point size white blank wallplate. Size 72 x 115mm. Ideal for many uses, including mounting TV antenna sockets, audio sockets, speaker terminals, low voltage outlets etc, etc.



▲ Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3035	\$4.95	\$4.45	\$3.90

Flushmount 75 Ohm TV Wall Socket with F59 Connection

- Standard power point size.
- PAL socket output
- F59 connection at rear
- Mounting screws
- Dimensions: 71(W) x 115(H)mm



▲ Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3065	\$4.95	\$4.45	\$3.90

PAL 2 Socket Wall Plate - TV & FM

Standard power point size. Two PAL sockets, one for TV and one for FM. Simply run one cable in from antenna.

- F59 rear connection
- Mounting screws included
- Dimensions: 115(H) x 71(W)mm



▲ Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3066	\$6.95	\$6.25	\$5.50

F61 Flushmount Wall Socket

Standard power point size.

- Accepts F59 plug both sides of this fitting.
- 71(W) x 115(H)mm.



▲ Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3040	\$4.95	\$4.45	\$3.90

Foxtel® Approved Wall Plates

For splitting your foxtel signal to two outlets. These wallplates are Foxtel® approved. We also have a model featuring an RJ12 socket to wire in your home phone.

2 X F61 SOCKET WALL PLATE

LT-3041

2 X F61 & RJ12 SOCKET WALL PLATE

LT-3058



▲ Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3041	\$6.95	\$6.25	\$5.50
LT-3058	\$5.95	\$5.35	\$4.75

Wallplate - Mini

Architrave type standard white wall plate with a cutout for the 75Ω snap-in insert shown below.



▲ Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3030	\$2.95	\$2.60	\$2.30

75 Ohm Insert

Clips into the mini wall plate shown above.

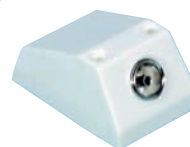


▲ Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3031	\$3.50	\$3.15	\$2.75

75 Ohm TV Floor Socket with F59 Connection

Designed to mount on the skirting board or floor

- 75 ohm impedance (standard).
- PAL socket output
- F59 connection at rear
- Mounting screws
- Dimensions: 50(L) x 30(W) x 25(H)mm



▲ Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3063	\$3.95	\$3.45	\$3.15

F61 Coax Floor Entry

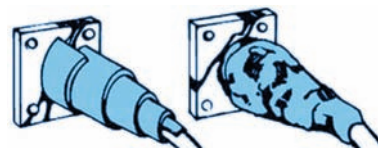
White in colour.

- Size 58 x 46(base) x 27(H)mm.
- Accepts F59 plug both sides of this fitting.



▲ Cat.	Qty 1+	Qty 2+	Qty 5+
LT-3042	\$3.50	\$3.15	\$2.75

Coax Seal Tape



This versatile material looks like ordinary PVC electrical tape but is actually a handy sealing system that fuses together to form a removable, waterproof seal once it has been applied. The tape has many uses such as waterproofing outdoor coax connections, sealing low pressure vacuum lines, or even as an alternative to heat shrink tubing when access is difficult.

- 12mm wide x 1.5m long.

▲ Cat.	Qty 1+	Qty 4+	Qty 10+
NM-2828	\$12.95	\$11.35	\$10.35

BUY ONLINE, COLLECT IN-STORE!

To check if your local store offers "Click & Collect" visit our website



CARAVAN TV ACCESSORIES

TV Outlet Socket

Make sure you never miss your favourite programs, sporting events or current affairs whilst travelling around Australia. This unobtrusive weatherproof cable socket includes connections, to support satellite dishes/receivers and/or a TV antenna. Installation on most caravans, motorhomes and boats is easy: just identify where you want the socket to sit, drill the appropriate holes, feed the attached cables through the holes, and screw the socket into place. Close the cover partially to protect the socket from the weather. When you want to hit the road again, disconnect the cables and close the cover fully. Supplied complete with mounting hardware and an illustrated installation guide.

- Protective cover
- 3m Cables
- Dimensions: 110(L) x 60(W) x 30(H)mm (socket)

Two models available:

2 X "F" CONNECTORS TO SUPPORT DUAL-CABLE SATELLITE DISHES & RECEIVER - LT-3072

1 X PAL & 1 X "F" CONNECTORS FOR BOTH YOUR TV ANTENNA & SATELLITE DISH - LT-3074



NEW 2017

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	Double "F" Connectors LT-3072	\$29.95	\$26.95	\$23.95
	1 x PAL & 1 x "F" Connector LT-3074	\$29.95	\$26.95	\$23.95

Caravan/RV Antenna Mast Clamp Set

Specifically designed with travellers in mind, you can quickly pop the mast in and out, to maximise your reception when camped. Position the antenna brackets on the side of your caravan, motorhome or boat, then use the self-adhesive pads to quickly and easily secure them in place. The brackets also include holes for screw mounting if you're worried about wild weather conditions and would prefer a more secure option! Suitable for 25-30mm dia antenna masts.

- Two mounting brackets
- Simple assembly
- Suits 25-30mm diameter masts
- Dimensions: 108(L) x 47(W) x 68(H)mm



NEW 2017

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	Pair LT-3208	\$24.95	\$22.45	\$19.95

White Roof Mount Cable Entry Cover

This handy weather-proof cable entry cover will allow you to run your caravan's TV antenna cable outside without introducing unnecessary leaks.

- Dimensions: 150(L) x 65(W) x 30(D)mm













NEW 2017

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3076	\$9.95	\$8.95	\$7.95

See page 94 for Caravan Antennas

TV FLYLEADS

 <p>TV Coaxial Plug to TV Coaxial Plug</p> <p>WV-7350</p>	 <p>TV Coaxial Plug to TV Coaxial Plug</p> <p>WV-7363</p>	 <p>TV Coaxial Plug to Socket</p> <p>WV-7360</p>	 <p>TV Coaxial Plug to Socket</p> <p>WV-7364</p>	 <p>F Plug to TV Coaxial Plug</p> <p>WV-7384</p>	 <p>F Plug to TV Coaxial Plug</p> <p>WV-7366</p>
 <p>F Plug to F Plug</p> <p>WV-7386</p>	 <p>F Plug to F Plug</p> <p>WV-7365</p>	<h3>FLEXIBLE COAX LEADS</h3>  <p>WV-7450</p> <p>A range of super flexible coax leads with multi-stranded core and a flexible outer casing that is less likely to tangle and prevents kinking. Available in RG59 or RG6 quad shielded coax cable with nickel plated, moulded F59 plugs.</p>		<p>IN A HURRY?</p> <p>Buy online, collect in-store!</p> <p>To check if your local store offers "Click & Collect" visit our website</p> <p></p>	

Connector 1	Connector 2	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
TV Coaxial Plug	TV Coaxial Plug	1.5m	WV-7350	\$5.95	\$5.25	\$4.75
TV Coaxial Plug	TV Coaxial Plug	1.5m - White	WV-7363	\$5.95	\$5.25	\$4.75
TV Coaxial Plug	TV Coaxial Plug	3.0m	WV-7351	\$7.95	\$6.95	\$6.25
TV Coaxial Plug	TV Coaxial Plug	5.0m	WV-7352	\$9.95	\$8.75	\$7.75
TV Coaxial Plug	TV Coaxial Plug	10.0m	WV-7354	\$16.95	\$14.95	\$13.35
TV Coaxial Plug	Socket	1.5m	WV-7360	\$4.95	\$4.45	\$3.90
TV Coaxial Plug	Socket	1.5m - White	WV-7364	\$4.95	\$4.45	\$3.90
TV Coaxial Plug	Socket	3.0m	WV-7361	\$7.50	\$6.75	\$5.95
TV Coaxial Plug	Socket	5.0m	WV-7362	\$8.90	\$7.95	\$6.95
F Plug	TV Coaxial Plug	1.5m	WV-7384	\$4.95	\$4.45	\$3.90
F Plug	TV Coaxial Plug	1.5m - White	WV-7366	\$8.95	\$7.95	\$6.95
F Plug	TV Coaxial Plug	5.0m	WV-7385	\$9.95	\$8.75	\$7.75
F Plug	F Plug	1.5m	WV-7386	\$8.95	\$7.95	\$6.95
F Plug	F Plug	1.5m - White	WV-7365	\$4.95	\$4.45	\$3.95
Flexible Coax Leads		10m - RG-59	WV-7450	\$19.95	\$17.95	\$15.95
Flexible Coax Leads		20m - RG-59	WV-7452	\$29.95	\$26.95	\$23.95
Flexible Coax Leads		10m - RG6 Quad Shielded	WV-7454	\$29.95	\$26.95	\$23.95
Flexible Coax Leads		20m - RG6 Quad Shielded	WV-7456	\$39.95	\$35.90	\$31.90

BALUNS & FILTERS

Outdoor Baluns

300 OHM TO 75 OHM - 'F' TYPE
Mounts on antenna. Converts natural 300Ω impedance of an antenna to 75Ω for coax. 'F' type female output. Eliminates saddle clamp termination. Requires F plug.



Indoor Baluns

75 OHM TO 300 OHM

75Ω socket for input and 300Ω ribbon cable output. Allows connection of any 75Ω output (video, TV games etc) to a TV with an older style 300Ω input.



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3028	\$4.95	\$4.45	\$3.90

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3022	\$4.50	\$3.95	\$3.60

4G/LTE Filter for Digital TV Reception

Since the re-stacking of Digital TV transmissions has already begun, pretty soon 4G/LTE mobile phone signals will start being transmitted on the old UHF TV channels 52-69. Of course, this means that UHF antennas will be picking up those signals, and interfering with Digital TV reception. When this filter is plugged into the back of a digital TV receiver blocks unwanted signals from 4G/LTE mobile transmitters.

- In-line coax connection - waterproof design
- Frequency pass range: 5-694MHz
- Insertion loss <1dB
- LTE band rejection: 720-1000MHz, 40dB



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3062	\$14.95	\$13.45	\$11.95

TV Antenna Signal Filter "F" Type - FL694LP 4G LTE

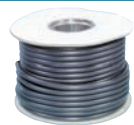


Designed to fit in-line with an F-type coaxial cable or to your masthead amplifier.

This easy to use filter will remove cell phone interference from your TV signal.



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3067	\$19.95	\$17.95	\$15.95

RELATED PRODUCTS

<p>FROM \$17.95</p> <p>WB-2005</p>  <p>COAX CABLE - 30m ROLL P159</p>	<p>FROM \$1.85</p> <p>HP-1200</p>  <p>CABLE TIES P168</p>	<p>FROM \$2.45</p> <p>HP-0680</p>  <p>CABLE CLIPS P170</p>	<p>FROM \$1.75</p> <p>PS-0620</p>  <p>JOINERS P141</p>
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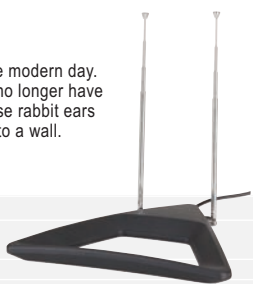
INDOOR ANTENNAS

UHF/VHF Passive Indoor TV Antenna - Desk or Wall Mount

The traditional "rabbit" ears antenna for the modern day. With flat screen TV's, rabbit ear antennas no longer have the ideal spot sitting on top of the set. These rabbit ears can sit flat on a surface or be mounted on to a wall.

- Suits digital TV signals
- Mounting hardware included

SPECIFICATIONS	LT-3116
Frequency range	VHF: 174-230MHz, UHF: 470-862MHz
Cable length	1.6m
Dimensions	195(W) x 15(D)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3116	\$11.95	\$10.75	\$9.55

Indoor Flat Panel UHF/VHF Digital Antenna with Amp

Sits unobtrusively near your TV. An very capable unit featuring signal clear technology with extremely low noise circuitry. It is able to pick up both UHF/VHF signals as well as DAB+ radio. It is also coupled with a separate amplifier with independent UHF and VHF gain adjustments. The amp can be powered with the supplied mains adaptor or from a USB cable (mini plug lead not supplied). Though the unit does not require the amplifier, it may be needed for areas with weak indoor reception.

- Built in LTE/4G filter

SPECIFICATIONS	LT-3156
VHF Frequency	45-230MHz
UHF Frequency	470-862MHz
Output	Max 78dB
Channels	0-12 & 20-75
Impedance	75 ohms
Panel Size	480(L) x 109(W) x 54(D)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3156	\$44.95	\$40.45	\$35.90

Slim Digital TV Indoor Antenna with Amplifier

This digital TV antenna is fitted with an LTE/4G filter which protects your TV from mobile broadband interference. It also features adjustable gain as well as telescopic dipoles and an adjustable loop aerial for optimal performance.

SPECIFICATIONS	LT-3206
Max Output	90dBuV
Max Noise	1.5/1.8dB (VHF/UHF)
Frequency	VHF: 174-230MHz UHF: 470-694MHz
Dimensions	230(L) x 195(W)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3206	\$39.95	\$35.90	\$31.90

Digital Indoor/Outdoor Antenna

As global television moves from analogue to digital, this indoor/outdoor digital antenna will be a great investment to your household. With its contemporary style design it may provide you with the high quality clear reception needed. The panel can be mounted to the wall; great for minimising space. AC adaptor included.

SPECIFICATIONS	LT-3137
Frequency range	VHF - 174-230MHz, UHF - 470-862MHz
Antenna gain	10dB
Total gain	40dB
Impedance	75 ohm
Output	F female connector
Dimensions	502(L) x 235(W) x 76(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3137	\$99.95	\$89.95	\$79.95

INDOOR TV ANTENNAS?

Jaycar carries a great range of "indoor" type TV antennas in both passive & active gain models, which are good quality. Many people select such products hoping that they will offer satisfactory TV reception without the cost and/or hassle of a full outdoor TV antenna system. Often people who are renting premises cannot install a full TV antenna system anyway because they are not allowed to drill holes etc. The reality, however, is that indoor TV antennas rarely give totally satisfactory results.

The antenna element dimensions never correspond to broadcast frequencies for a start. Because you are inside, you may have no idea where the TV tower is anyway. Even if you knew where the tower was the antenna rarely has directional qualities. This makes the towers' location fairly meaningless. To make an indoor antenna according to the laws of physics misses the point.

Despite this, indoor TV antennas can work amazingly well! Just don't get too scientific about it. They work best when you can throw a rock and hit the TV tower. As all the channels you will want to watch will not be in rock-throwing distance, some stations will work better than others. Wiggling the antenna around is really your only available technique. Indoor TV antennas are made for flat dwellers in large Western or Asian cities with high building density. In other words, all the TV towers will not be far away.

If you live in a "spread out" city and cannot see a TV tower i.e. like most Australian and New Zealand cities, it is highly likely that an indoor antenna will not solve your reception problems. There may simply be very little signal for you to pick up. Just imagine walking into a darkened room at night. Even with your eyes wide open you see virtually nothing until your eyes adjust to the conditions. At best you can see, say the white frame of a door. You certainly would not be able to read! You would not blame your eyes because you could not see but people frequently blame an indoor TV antenna in a similar situation for "not working" (visible light and TV signals are both part of the electromagnetic spectrum).

TECH TALK



DIY

So when you buy an indoor antenna - from us or anyone else - don't expect a lot. If you bring the product back and say "it doesn't work", we know that you are really blaming the messenger. You may think that our words are a bit harsh but we respect both your time and your money too much to tell you what you need to hear, not what you want to hear.

The copy above relates mainly to Analogue TV systems. They are basically gone now but the need for an indoor or temporary TV antenna still exists. Let us Jaycar people take a position on this: We do not like indoor TV antennas and if we could get away with it, we would not sell them.

The behavior of an indoor TV antenna can be ok, it can really be bizarre. If you are renting a flat and have a hopeless TV (Digital) reception you really need to get the landlord to fit a proper TV signal feed. Good Luck.

The TV Signal is still R.F. however, although digitally encoded. This means that the indoor antenna is still capable of picking up the radio frequency signal and converting it into a signal voltage. In all likelihood the antenna will pick up several versions of the R.F. signal at once. This is because R.F. being R.F. will have made its way to your antenna via several paths. It will be up to the front end of your TV receiver to distinguish the strongest signal and ignore the others. Modern TV front ends are pretty good at this.

So if you are in a rented flat and want to watch TV try one of our indoor antennas. Ours are as good as or better than anyone else's. If you are not happy with the performance of the antenna, keep the packaging, your receipt and bring it back to us if you feel you have to. Just don't tell us that "...it does not work..." You will get your money back all right, but you might get a blank stare....

AM / FM ANTENNAS

Indoor AM Antenna

Stereo tuners aren't made with internal antennas. Most people listen to FM with their tuner, but for the rest who want AM, we have the answer - a loop antenna that can be easily left on top of your stereo cabinet or stored out of sight. It has built-in stand and fly leads to fit the antenna spring terminals on most tuners.

SPECIFICATIONS	LT-3001
Frequency range	520 - 1660kHz
Dimensions	120(W) x 120(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3001	\$19.95	\$17.95	\$15.95

FM Indoor Antenna

Simple ribbon type antenna (dipole) gives good performance in strong signal areas.

- 300Ω termination.



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3002	\$4.95	\$4.45	\$3.90



For our Shortwave Passive Reel Antenna
see page 107

UHF/VHF ANTENNAS

Outdoor Omni-Directional UHF/VHF Amplified Digital Antenna

With inbuilt low noise and high gain booster, this compact and weather resistant outdoor digital antenna is ideally suited for caravans, boats, and other fixed or mobile applications where space is constrained or harsh environmental conditions require a little extra durability. Excellent wide frequency reception for local free-to-air analogue and digital TV, DAB+ digital radio as well as FM radio transmissions. It can be either base mounted or mast mounted and includes mounting bracket, 12V mains power adaptor and a 12V in-car charger.

- SMD technology
- Anti-rust and UV protected



SPECIFICATIONS	LT-3141
FM	87.5 - 108MHz
VHF	174-230MHz
UHF	470-862MHz
Output level	Max 108dB
Impedance	75 ohms
Receiver dish	350(Dia) x 60(H)mm
Mounting base	120(Dia) x 70(H)mm



Outdoor UHF/VHF/Marine TV Antenna

Digital ready. It rotates. Ideal for "grey nomads". This unit is ideal for the traveller. This antenna works on all frequencies ideal for any part of Aust/NZ. (Some better than others, we admit). It covers VHF low, down to 45MHz (channel 2) to 860MHz (channel 69). Includes a signal amp, a rotator motor, a remote control and also with approx. 8m of TV lead with a weatherproof plug on one end.

- 12VDC mains adaptor supplied
- Includes booster amp which will drive 2 x TV's
- Compatible with LT-3204 telescopic mast.
- Output 80 dBuV.
- Remote includes: 1 x 12V battery
- Antenna measures: 750(W) (deployed) x 300(L) x 100(D) (mm) (Folds down for storage)



Note: Mast not included - use LT-3143



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3141	\$89.95	\$80.95	\$71.95

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3143	\$64.95	\$58.45	\$51.95

Combination VHF/UHF DigiMatch Antenna

These Australian made heavy duty antennas are the ideal metropolitan antennas for Digital TV as they are capable of receiving digital and analogue TV on VHF channels 6-12 and UHF channels 21-69. The UHF section of the antenna employs X-type elements for wider bandwidth and higher gain, whilst the VHF section has elements made from high grade aluminium strong enough to withstand damage from birds. The VHF section of these antennas can be mounted horizontally or vertically for areas such as Canberra and Shepparton, making them suitable for all TV transmitters throughout Australia. Their overall design has improved figures for gain, VSWR and F/B ratio to give a superior carrier to noise ratio - this means more signal, less noise and therefore much lower chance of picture dropouts. The Digital anti-reflection Matching System (DMS) employs a diplexer to electronically couple the VHF and UHF sections of the antenna together, giving 20dB isolation to achieve a better Bit Error Ratio (BER) and maximum digital performance.

- Ready for today and future UHF allocations and Plus One networks
- F-Type PCB balun & diplexer for quick installation and improved VSWR
- Black ABS UV resistant plastics
- 12.7mm dia. VHF elements
- Stainless steel screws
- Australian designed and manufactured
- Powder coated boom (blue)

DIGIMATCH VHF/UHF ECONOMY 7 ELEMENT

Receives Band 3, 4, and 5 (Channel 6-12 and 21-69). Perfect for caravans or space-conscious metropolitan areas. Designed to enable positions in all horizontal, vertical or horiz/vert. polarities.

- Suitable for all transmitters across Australia
- High performance / Heavy duty construction
- Stainless steel connection screws
- Black UV resistant plastics / Powder coated boom
- Supplied in stout, compact cardboard packaging

SPECIFICATIONS	LT-3172
Boom length	720mm
Max width	880mm



DIGITAL READY



NOT AVAILABLE IN NEW ZEALAND



DIGIMATCH VHF/UHF X-TYPE COLINEAR 27 ELEMENT

Receives Band 3, 4, and 5 (Channel 6-12 and 21-69). Supplied in stout, compact cardboard packaging

SPECIFICATIONS	LT-3195
Elements	27
Gain	VHF 7dB, UHF 11dB
Avg. VSWR	1.9:1
Avg. F/B Ratio	VHF 12dB, UHF 18dB
Boom length	1320mm
Max width	900mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
7 Element Antenna	LT-3172	\$99.95	\$89.95	\$79.95
27 Element Antenna	LT-3195	\$149.00	\$133.95	\$118.95

TV ANTENNAS

COMPARISON GUIDE

	Type	Elements	Channels	Frequency Range (MHz)	Gain	Front-back ratio	Overall Length	Page
LT-3172	Combination	7	6-12 28-46	174-230 526-659	VHF 8dB UHF 12dB	VHF 12dB UHF 16dB	720mm	94
LT-3195	Combination	27	6-12 28-46	174-230 526-659	VHF 7dB UHF 11dB	VHF 12dB UHF 18dB	1320mm	94
LT-3151	UHF	20	21-69	470-862	7.5dB	21dB	400mm	95
LT-3154	UHF	4	27-51	519-694	12.5dB	22dB	815mm	95
LT-3181	UHF	43	21-52	470-750	11 - 13dBi	15 - 25dB	1285mm	95
LT-3182	UHF	91	21-52	470-750	14 - 16dBi	15 - 26dB	2210mm	95
LT-3152	VHF	4	6-12	174-230	9.5dB	15dB	735mm	95
LT-3153	VHF	6	6-12	174-230	10.5dB	16dB	1275mm	95
LT-3161	VHF	6	6-12	174-230	8dB	19.4dB	686mm	95
LT-3165	VHF	10	6-12	174-230	9.5dB	21.5dB	1548mm	95

UHF/VHF ANTENNAS (CONTINUED)

Mini UHF Log Periodic Antenna

This UHF mini log periodic antenna has been specifically designed for Digital TV reception. It is supplied with an easy to install mounting bracket and "J" mast. Compact in size the antenna is capable of being installed vertically or horizontally and with 7.5dB of gain is the ideal reception solution for areas with medium levels of signal.

SPECIFICATIONS	LT-3151
Element	20
Band	4-5
Channels	21-69
Frequency	470-862MHz
Gain	7.5dB
F/B Ratio	21dB
Overall Length	400mm
Maximum Width	311mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3151	\$59.95	\$53.95	\$47.95

UHF Phased Array TV Antenna

This heavy duty UHF phased array is ideal for problem digital reception areas where you may not have direct line of sight to the transmitter or there may be multipath issues due to reflected signals. It is capable of receiving either horizontal or vertical signals by changing the orientation of the heavy duty mounting bracket/U-bolt assembly. The LTE filter provides protection against 4G/LTE telephone communications.

SPECIFICATIONS	LT-3154
Gain	12.5dB
Wind load	78
Frequency	519-694MHz
Channels	27-51
Front to Back ratio	22dB
No of Elements	4
Impedance	75 Ohm
Dimensions	815 x 545mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3154	\$74.95	\$67.45	\$59.95

UHF TV Antennas with 4G LTE Filter

TV antennas suitable for medium or deep fringe signal reception areas. Both feature an LTE filter to prevent interference from 4G/LTE mobile networks, which is housed within a waterproof dipole box with F-type connection. Easy assembly - just fold elements into position

• High quality waterproof F-type balun • In-built filter for next-gen LTE/4G network signals

43 ELEMENT - CAT. LT-3181

Suitable for medium signal reception areas.

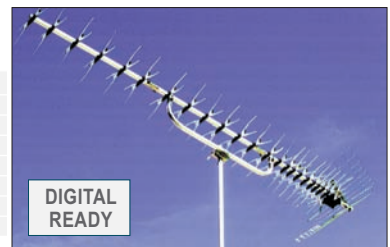
SPECIFICATIONS	LT-3181
Elements	43
Channels	21-52
Frequency	470 - 750MHz
Gain	11 - 13dBi
F/B Ratio	15 - 25dB
Impedance	75 Ohm
Overall Length	1285mm



91 ELEMENT - CAT. LT-3182

Huge antenna suitable for deep fringe signal reception areas.

SPECIFICATIONS	LT-3182
Elements	91
Channels	21-52
Frequency	470 - 750MHz
Gain	14 - 16dBi
F/B Ratio	15 - 26dB
Impedance	75 Ohm
Overall Length	2210mm



Limited Stock

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
43 Element	LT-3181	\$44.95	\$40.45	\$35.90
91 Element	LT-3182	\$89.95	\$80.95	\$71.95

4 Element VHF Yagi Digital TV Antenna

With the major cities in Australia now receiving their Digital TV reception on Band 3, the Kingray range of yagi antennas provide the perfect solution for metropolitan and some country areas. The antennas are almost completely assembled out of the box, with only the reflector and director having to be attached to the boom. The heavy duty 12mm elements, stainless steel screws on the driven element connection points, powder coated boom and UV stabilised plastics will ensure many years of trouble free reception. They are also suitable for DAB+ reception.

SPECIFICATIONS	LT-3152
Elements	4
Band	3
Channels	6-12
Frequency	174-230MHz
Gain	9.5dB
F/B Ratio	15dB
Overall Length	735mm
Maximum Width	835mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
4 Element	LT-3152	\$74.95	\$67.45	\$59.95

6 Element VHF Yagi Digital TV Antenna

With the major cities in Australia now receiving their Digital TV reception on Band 3, the Kingray range of yagi antennas provide the perfect solution for metropolitan and some country areas. The antennas are almost completely assembled out of the box, with only the reflector and director having to be attached to the boom. The heavy duty 12mm elements, stainless steel screws on the driven element connection points, powder coated boom and UV stabilised plastics will ensure many years of trouble free reception. They are also suitable for DAB+ reception.

SPECIFICATIONS	LT-3153
Elements	6
Band	3
Channels	6-12
Frequency	174-230MHz
Gain	10.5dB
F/B Ratio	16dB
Overall Length	1275mm
Maximum Width	835mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
6 Element	LT-3153	\$89.95	\$80.95	\$71.95

DigiMatch VHF Band 3 Antennas

Major metro cities in Australia are receiving their Digital TV broadcasts exclusively on VHF band 3 channels 6-12). These fantastic heavy duty VHF Yagi antennas made exclusively for Jaycar by Matchmaster have all the features you expect - high grade 12.7mm diameter aluminium extruded elements, "G-unit" dipole, UV stabilised black plastic isolators, stainless steel hardware, blue powder coated boom, and a high grade F-type balun for superior digital performance. And let's not forget these are 100% Australia made! A sure bet for the best Digital TV reception in your home.

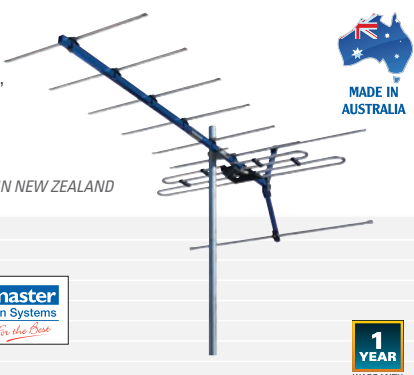
Two models available:

6 ELEMENT VHF BAND 3 ANTENNA CAT. LT-3161

10 ELEMENT VHF BAND 3 ANTENNA CAT. LT-3165

SPECIFICATIONS	LT-3161	LT-3165
Elements	6	10
Gain	8dB	9.5dB
Avg. VSWR	<2.2:1	<2.0:1
Max F/B ratio	19.4dB	21.5dB
Channels	6-12	6-12
Boom length	686mm	1548mm
Max width	900mm	900mm

DIGITAL READY
for METRO
digital areas



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
6 Element	LT-3161	\$109.00	\$97.95	\$86.95
10 Element	LT-3165	\$169.00	\$151.95	\$134.95

TV ACCESSORIES

Digital TV Signal Strength Meter

Take out the stress from installing your digital TV antenna by using this DVB-T signal strength meter. No more multiple trips up to your roof to get that perfect picture. Connect the pocket sized DVB-T signal strength meter and adjust the angle of your digital TV antenna, the easy to read LED indicator lets you know when you've hit the right spot. Adapters included.

- Requires 1 x 9V battery
- Frequency range: 40-862MHz
- Input Level: 50-90dBuV



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3332	\$39.95	\$35.90	\$31.90

Satellite Finder with LED Display

Align your satellite dish quickly and accurately with this handheld satellite finder. Connected between the satellite dish and set top box the meter displays signal strength on the 6 LED display. Once the meter picks up a signal use the adjustable sensitivity to fine tune the angle and lock in on the signal. A small compass is included to help you get the dish pointed in the right direction. Perfect for setting up permanent dishes as well as portable systems on caravans or RVs.

- Dimensions: 90(L) x 48(W) x 31(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LS-3302	\$24.95	\$22.35	\$19.70

DiSeqC™ 1.2 Motor with Metal Gear

DiSeqC™ (pronounced "Die-Sec") is the signal protocol used between a satellite receiver and a dish rotor. This DiSeqC™ motor connects to the output of an LNB and to the input of a DiSeqC™ receiver or interface box. When you select a different channel on your receiver, the motor rotates the dish to the correct satellite position so you get the best picture. The motor also supports receivers with Goto "X" function for manual position adjustment.

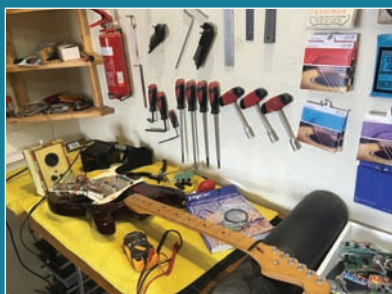
SPECIFICATIONS	LS-3330
Protocol	DiSeqC™ 1.2 & Goto "X"
Compatible receiver	Receiver with DiSeqC™ 1.2 or Interface Box
Compatible antenna size	120cm max.
Satellite position	100 positions
Azimuth Angle	80° East - 80° West (160°)
Elevation Angle	25° - 75°
Speed	2.5"/second at 13V or 3.2"/second at 18V
Input/Output voltage	13/18VDC
Dimensions (mount)	345(L) x 168(H) x 110(D)mm



▲	Cat.	Qty 1+
	LS-3330	\$64.95

SHOW US YOUR BUILD COMPETITION

Dane, who shops at our Jaycar Gold Coast store built:



I'm doing some wiring on an electric guitar at the moment. The main tools I'm using are the Goot RX-711AS Soldering Station with temperature control and the Digitech QM-1323 Digital Multimeter. I can't wait to see how it sounds with the new wiring!

BUYING A DIGITAL READY ANTENNA?

What else will you need? We carry a comprehensive range of masthead and other amplifiers, antenna hardware, attenuators, baluns and modulators. Come into one of our Jaycar stores or stockists and ask our friendly staff.

Audio/Video RF Modulator with Display - Stereo

Converts the composite video and stereo audio signal from your DVD player, Pay TV, Camera etc into a standard UHF or VHF TV channel so you can watch the program via the antenna input of the TV.

It is easy to connect and operate, and is supplied with a 9VDC mains adaptor and 1m Female to Male RF cable.

- RCA AV input
- PAL antenna input
- PAL antenna output (TV)
- DC power supply input
- ON/OFF switch
- Channel adjustment (Up/Down key)
- LED channel number display



SPECIFICATIONS	LM-3880
Output	VHF: 2-4CH, S1-S11 UHF: 21-69CH (471.25-801.25MHz)
Power cable length	1.8m
Dimensions	140(L) x 82(W) x 30(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	LM-3880	\$49.95	\$44.90	\$39.90

DIGITAL TV ANTENNA GUIDES

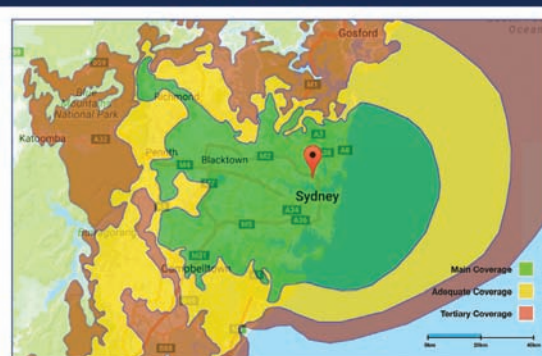
TECH TALK

Before you invest in a new antenna and make the effort to climb up on the rooftop to install it, be sure to check out our TV Antenna Guide to make sure you have the correct antenna. Our friends at KINGRAY have come up with some very useful TV Antenna Guides that recommend the best antenna for your area. The coloured charts show you the main, adequate and tertiary TV coverage areas based on the transmitter tower's location, and then recommends which antenna is best suited to that location. The guide also suggests accessories, such as masthead amplifiers, that you may need depending on your location.

Visit our website www.jaycar.com.au/tvantennas or visit your local Jaycar store to view the FREE guide.

KINGRAY DIGITAL TV ANTENNA GUIDE

Sydney Region NSW



Main Coverage	Adequate Coverage	Recommended Kingray Antennas for this transmitter
KVHFY4 / KVHFY6	KVHFY6	
Station Name	Channel	
ABC	12	
SBS	7	
Seven Network	6	
Nine Network	8	
Network Ten	11	
- Transmitter located in the Atamora area		
- Mount antenna in horizontal position		

• Disclaimer: This coverage is indicative only. Reception can be affected by multiple external factors.
• Best suited for use within 25km of transmitter.

Kingray Accessories:

- MHV35WDP / LT3251 (Masthead amp with 25dB LTE rejection)
- FL69ALP / LT3067 (Active filter with 55dB LTE rejection)

1300 463 463 kingray.net.au

A division of Standard Communications Pty Ltd.
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All international enquiries email: export@scm.net.au

Jaycar Kingray

TV antenna guide for the Sydney Region shown above. For your region visit www.jaycar.com.au/tvantennas

SPLITTERS/AMPLIFIERS

Indoor Splitter - 2 Way

Allows you to connect two TV, video, games, FM receivers etc to one RF plug, so you can run multiple devices on one outlet.

- Takes standard PAL RF connectors.
- 2 x female sockets to male plug

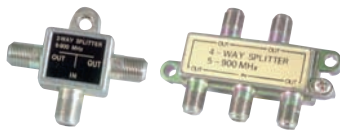


▲	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	LT-3020	\$5.95	\$5.25	\$4.75

F Connector Die Cast Metal Case TV Splitters

These splitters are sealed in a metal case with a mounting bracket. They are suitable from 5 - 900MHz, VHF, UHF TV and FM radio.

- Requires F type plugs - see plugs and sockets section for these
- Supplied with mounting screws



They have power pass for masthead amps on all ports. Low VSWR (Voltage Standing Wave Ratio).

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	LT-3044	\$7.95	\$6.95	\$6.25
4 Way	LT-3045	\$9.95	\$8.75	\$7.75

Single Power Pass

These have power pass on the input to one output. This is to allow voltage up through the splitter to power a masthead amplifier or satellite dish LNA. These allow the voltage on one port only, so if anything goes wrong, all ports are not affected by low frequency shorts.



Low VSWR for
Digital Performance

DIGITAL
READY

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	LT-3046	\$12.95	\$11.35	\$10.35
4 Way	LT-3047	\$17.95	\$15.95	\$14.35

Indoor Digital TV Amplifier UHF/VHF

A portable and compact amplifier capable of boosting signals to passive indoor TV antennas for both digital and analogue signals.

It can be powered from the supplied mains adaptor or USB (mini plug available separately) and features independent manual UHF and VHF gain adjustments to give you greater control over your signal. In-built signal clear technology with low noise circuitry will help to give you the best possible picture and video.

- Standard PAL input and output connections.

SPECIFICATIONS	LT-3281
VHF Frequency	45 - 230MHz
UHF Frequency	470 - 862MHz
Gain	20dB
Noise	<3dB
Impedance	75 ohms
Dimensions	100(L) x 60(W) x 27(H)mm



1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
Single	LT-3281	\$29.95	\$26.90	\$23.70

UHF/VHF/FM Indoor Amplifier TV Splitters

Split and amplify your UHF, VHF or FM signals with these handy amplifier splitters.

Features high gain and low noise to ensure your signal is of a high quality. Both units can be wall mounted for greater convenience.

- Mains adaptor included

1
YEAR
WARRANTY



SPECIFICATIONS	LT-3282	LT-3284
Frequency range	47 - 900MHz	47-900MHz
Output(max)	2 x 87dBuV	4 x 80dBuV
Gain Average	20dB	15dB/10dB (VHF/UHF)
Noise	<2dB	<5dB
Power	12VDC/50mA	6VDC/50mA
Dimensions	110(L) x 70(W) x 35(H)mm	158(L) x 80(W) x 45(D)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	LT-3282	\$24.95	\$22.35	\$19.70
4 Way	LT-3284	\$29.95	\$26.95	\$23.95

Indoor TV Amplifier/Splitters

SINGLE OUTPUT

Such a simple and neat solution to boosting your TV antenna signals. The unit simply plugs into a mains outlet, and boosts your TV antenna signals through the F-type input and output sockets. There is also a mains output socket on the front so that you don't lose any power points behind your TV unit. Up to 20dB of amplification is provided, with a variable gain control.



SPECIFICATIONS	LT-3285
Frequency range	46-860MHz
Gain	20dB
Gain control	15dB VHF, 10dB UHF
Noise figure	only <3.5dB
Dimensions	96(L) x 60(W) x 40(D)mm

Features
"F"
sockets

2 WAY

Boost your TV signal indoors. The antenna lead is plugged into the amplifier, and there are two outputs for two TVs, both which have a 12dB boost. One outlet can be used for FM stereo if desired. Runs on 240VAC mains, and includes a LED power indicator.



4 WAY

A digital television splitter/amplifier for use in multiple receiver applications. The amplifier has F type input/output connectors and features variable gain on the VHF band. The unit operates from 240VAC and is mounted in a white ABS housing with integral mounting lugs. Size 60(W) x 40(H) x 85(L)mm. Adaptors are included to suit Belling Lee installations.



Kingray

SPECIFICATIONS	LT-3287
Frequency range	40 - 860MHz
Variable gain	0 - 6dB

3
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
Single Output	LT-3285	\$44.95	\$40.45	\$35.90
2 Way	LT-3288	\$44.95	\$40.45	\$35.90
4 Way	LT-3287	\$89.95	\$80.95	\$71.95

Amplifier 20dB Gain Plug In 4G LTE Filter

This TV amplifier with 4G filter is ideal for improving reception on a single TV whilst simultaneously eliminating interference from mobile phone signals. To use, simply plug into electrical socket, connect TV antenna cable into the "ANT" socket and the TV / VCR cable into the "TV" socket. Once proper connection is made, turn the power on and select gain level as required. Includes 2 x 'F' Type male to PAL female connectors.

- 4G LTE filter output 694-862MHz
- Frequency 40 - 694MHz
- Adjustable gain 20dB
- Power: 240VAC/50Hz 10A 2.5Watt
- Low Noise 3dB
- Built in LED indicator
- RF shielded internal metal housing
- For indoor use only



NEW
2017

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3289	\$54.95	\$49.45	\$43.95

DISCOUNT TRADE CARD

If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to substantial discounts on most Jaycar products.



Discounts range from 5% to 30% depending on the type & quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

MASTHEAD AMPLIFIERS FOR DIGITAL TV

UHF/VHF Digital TV Masthead Amplifier

A cost effective 26dB masthead amplifier suitable for digital, analogue, or HDTV reception. The unit is able to accept signals from separate UHF and VHF antennas, or UHF/VHF combination antennas, and output the amplified signal down a single cable. Features separate VHF and UHF gain controls, F-type connections, weatherproof plastic housing and optional FM trap. Supplied with power injector, PAL Male to F-Male lead, 2 x PAL-Female to F-Male adaptors and power supply.

SPECIFICATIONS	LT-3275
UHF gain	26dB
VHF gain	18dB
Current consumption	80mA
Power supply	15VDC
Noise figure	UHF 1.5dB / VHF 2dB
Return loss	In 10, Out 8
HDTV Compliant	
Dimensions	125(W) x 102(H) x 45(D)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3275	\$59.95	\$53.95	\$47.90

VHF/UHF/HDTV Masthead Amplifier - Digimatch

Designed in Australia specifically for harsh Australian conditions, this masthead amp is ideal for digital, analogue or HDTV reception in Australia or New Zealand. Suitable for use with either separate VHF and UHF antennas, or a single combination antenna. It also features separate adjustable gain on VHF and UHF for optimum signal. Supplied with full installation manual, mounting hardware and power supply. Waterproof housing and fully shielded.

- Heavy duty clamping system
- Suitable for bands 1-5
- Regulated power supply
- Adjustable inter-stage gain on UHF & VHF
- UHF gain: 10 - 30dB / VHF gain: 5 - 25dB
- Fully shielded
- AC power adaptor with F-type connection included
- Dimensions: 112(W) x 108(H) x 35(D)mm
- HDTV Compliant
- Switchable input
- Posistor protected
- F-type connectors



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3270	\$69.95	\$62.95	\$55.95

32dB Masthead Amplifier - KMD32FS

Featuring a completely revised PCB design with advanced surface mount technology has allowed these new models to pack all the same performance and features into a much smaller package. Each unit features a shielded case, weather resistant UV stabilised outdoor plastic housing, adjustable gain controls, combined or separate antenna inputs (allowing either a combination VHF/UHF or separate VHF and UHF antenna inputs), and F-type connections. Includes 14VDC Power Supply

SPECIFICATIONS	LT-3255
Frequency range	VHF 44-230MHz, UHF 520-820MHz
Max gain	VHF 26dB, UHF 32dB
Gain control	VHF 10dB, UHF 10dB
Noise figure	VHF <3dB, UHF <2.5dB
Max output	108dB @ -60dB IMR (DIN45004B)
Supply voltage	17.5VAC (will also work with 14VDC)



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3255	\$79.95	\$71.95	\$63.95

LTE = Long Term Evolution (4G Wireless Broadband Technology)

15dB Masthead Amplifier With LTE

A wideband masthead amplifier with a very low noise figure and an output figure comparable to many distribution amplifiers. Designed to be powered by a DC power supply, (AC power supplies are not suitable). A solution for all installations, especially in problem reception areas.

SPECIFICATIONS	LT-3257
Frequency	174-694MHz
Gain	15dB
Gain Control	VHF 10dB, UHF 6dB
Noise Figure	<2.0dB
Output Figure	113dB @ -60dB
Return Loss	>10dB
Supply Voltage	12-24VDC
Filters	174MHz HP, 694MHz LP
Inputs	1



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3257	\$99.00	\$89.00	\$79.00

Kingray SAM224FS 4 Output Masthead Amplifier

Australian design and high quality SMD construction leads to exception performance from this 4-output masthead amplifier from Kingray. Accepts a single "mixed" antenna input, and provides four amplified outputs for you to run to each wall point in your home. All connections are F-type to ensure best signal quality, and the circuit board is housed in a metal case to shield against noise. Includes power supply.

- Wide input range to suit all analogue and digital TV signals
- 4 individual amplified outputs
- Suitable for combined VHF/UHF antenna input
- Replacement power supply LT-3256



Kingray

SPECIFICATIONS	LT-3253
Frequency range	44 - 860 MHz
Max gain	VHF 12dB, UHF 16dB
Gain control	11 - 14dB tilt
Noise figure	<3.5dB
Max output	100dBuV DIN45004B / -60dB IMR
Supply voltage	14VDC 70mA
Dimensions	105(W) x 90(H) x 35(D)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3253	\$89.95	\$80.95	\$71.95

Kingray VHF/UHF Masthead Amp with LTE/4G Filters

As you may be aware by now, a large chunk of the Australian TV broadcast spectrum is being reallocated for the next generation 4G/LTE mobile phone service. This is currently due to happen at the end of 2013, and early reports are suggesting that this reallocation of the spectrum may interfere with existing TV reception apparatus. To guard against this, Kingray have produced this Australian made masthead amp that provides a good VHF & UHF TV band gain, and user selectable filters for VHF bands 1&2, FM radio, fixed pagers, and the new 4G/LTE band.

- Supplied with AC power injector and F-type to PAL adaptors.
- Combination and separate VHF & UHF Antenna inputs



A fantastic product proudly made in Australia.

Kingray

SPECIFICATIONS	LT-3251
Frequency range	VHF 44-230MHz, UHF 520-860MHz
Gain	VHF 22-26dB, UHF 35dB
Gain control	VHF 16-12dB, UHF 15dB
Noise figure	VHF 3.5dB, UHF 2.1dB
Selectable filters	FM, LTE, VHF band 1 & 2, fixed pagers
Suitable power supplies	LT-3256, LT-3258 or LT-3259



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3251	\$119.00	\$106.95	\$94.95

Replacement Power Supplies for Masthead Amplifiers

F-socket power injector.

- 14VDC@150mA - Cat LT-3256/LT-3251
- 17.5VAC@100mA - Cat LT-3258
- Connection: F-59



Kingray



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3258	\$29.95	\$26.90	\$23.70
	LT-3256	\$29.95	\$26.90	\$23.70

12V Masthead Amp Power Injector

An easy solution to powering a masthead amp on a caravan, RV, camper trailer etc. It plugs into a cigarette lighter/12V power socket and feeds power for a masthead amplifier. Simply connect between the antenna down lead and your set top box. F-type connections fitted.

- Suitable with LT-3251 VHF/UHF masthead amplifier
- Ideal for Caravans and RV's



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3259	\$39.95	\$35.90	\$31.90

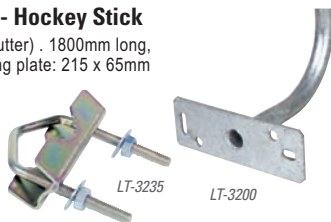
ANTENNA HARDWARE

Bargeboard Antenna Mount - Hockey Stick

Simply bolt onto bargeboard (below gutter) . 1800mm long, galvanised steel construction. Mounting plate: 215 x 65mm

U-CLAMP/V-BLOCK

For securely clamping mast sections, mounts, etc., at right angles.



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	Hockey Stick Mount 1.8m	LT-3200	\$39.95	\$35.95	\$31.95
	U Clamp V Block	LT-3235	\$4.50	\$3.95	\$3.60

Caravan/RV (General Purpose) Mast

This unit in natural finish anodised aluminium is a telescopic mast suitable for TV and other antennas. It will extend to 1.5 metres in 3 sections. The top section is 27mm dia. which is compatible with almost all TV antenna mounting hardware. The bottom section is 35mm dia. which would easily be accommodated by U-bolt or other clamping hardware (not supplied). The top section has a sturdy cap & features a slot to neatly thread the coax lead down through the mast.

- Length extended: 1.5m

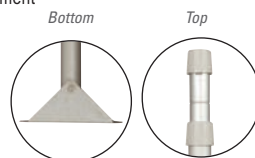


▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	Up to 1.5m	LT-3204	\$29.95	\$26.95	\$23.95

Telescopic Antenna Mast

With adjustable height and durable aluminium construction, this versatile telescopic antenna mast is suitable for just about any domestic application as well as marine and mobile use. It has a maximum height of 4.5 metres and includes a base mount and three guy wires for ensured stability.

- Suitable for multiple antenna use
- Easy installation & height adjustment
- 36mm diameter
- Maximum height 4.5 metres



Ideal for Grey Nomads



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	Up to 4.5m	LT-3202	\$64.95	\$58.50	\$51.95

BUYING A DIGITAL READY ANTENNA?

What else will you need? We carry a comprehensive range of masthead and other amplifiers, antenna hardware, attenuators, baluns and modulators. Come into one of our Jaycar stores or stockists and ask our friendly staff.

MASTHEAD AMPLIFIER AND SPLITTER GUIDE

TECH TALK

We have an extensive range of masthead amplifiers in our range to suit various TV signal needs.

The following details and table can guide you to make the right choice, or pop into one of our stores and speak to our knowledgeable staff.

LT-3275:

Designed to amplify low levels of off air signal from the antenna. Jaycar house brand.

LT-3270:

Designed in Australia for Australian conditions. Digimatch 10MM-MA30PDF.

LT-3255:

Designed to amplify low levels of off air signal from the antenna (35dB to 55dB). Kingray KMW32FS.

LT-3251:

Designed to amplify low levels of off air signal from the antenna (35dB to 55dB). Kingray MHW35F. 3yr warranty. Made in Australia for Australian conditions.

LT-3257:

Single input masthead distribution amplifier designed to amplify 174-694 MHz, can be used as a masthead or distribution amplifier, with a high output figure & has proven to be effective in all installations, especially digital problem areas. Kingray MDA15W. 3yr warranty. Made in Australia for Australian conditions.

LT-3253:

Designed to split and amplify signals that are of acceptable quality to one outlet un-amplified. Kingray SAM224FS. 3yr warranty. Made in Australia for Australian conditions.

Cat no.	Type	Frequency Range	Maximum Gain	Quality	Built-in 4G low-pass filter	Made in Australia	Model No.	Power Supply Included
LT-3275	Distribution Amplifier	470-862MHz	VHF: 18dB UHF: 26dB	Good			LT-3275	15VDC
LT-3270	Distribution Amplifier	470-862MHz	VHF: 25dB UHF: 30dB	Better	•		LT-3270	14VDC
LT-3255	Distribution Amplifier	VHF: 44-230MHz UHF: 520-820MHz	VHF: 26dB UHF: 32dB	Better	•		KMW32FSDF	14VDC (KPS06)
LT-3251	Distribution Amplifier	VHF: 174-230MHz UHF: 520-694MHz	VHF: 26dB UHF: 32dB	Best	•	•	MHW35FDP	14VDC (PSK06F)
LT-3257	Distribution Amplifier	VHF: 174-694MHz UHF: 174-694MHz	VHF: 15dB UHF: 15dB	Best	•	•	MDA15WDP	14VDC (PSK06F)
LT-3253	Splitter/Amplifier	VHF: 44-230MHz UHF: 520-820MHz	VHF: 12dB UHF: 16dB	Best		•	SAM224FSDF	14VDC (KPS06)

RELATED PRODUCTS

FROM
\$17.95
WB-2005



COAX - 30m

P159

FROM
\$44.95
WB-2014



QUAD SHIELD COAX - 30m

P159

FROM
\$3.95
LT-3063



TV SOCKETS

P91

FROM
\$19.95
TH-1820



COAX STRIPPERS

P212

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be rewarded with a \$25 Jaycoins Card once you reach 500 points!

*Conditions apply. See front of catalogue for details



PLASMA / LCD / LED TV WALL BRACKETS

We have celebrated the emancipation of new bracket designs by introducing a total new product range. Wall brackets for TVs & monitors have come down in price for 2 main reasons.

- Supply is no longer dominated by expensive European manufacturers
- The brackets no longer need to be made to hold 80kg+ CRT-type TVs.

Our range of universal TV and monitor brackets are easily strong enough to safely hold up any LCD, LED or even plasma TV safely. Indeed TVs are in fact getting lighter and lighter.

These products have come a long way. Not only are they more versatile, most come with built-in bubble-type spirit levels to aid in successful installation.

- Models to suit Plasma/LCD/LED TVs from 13" - 80"
- VESA standard compliant
- Mounting hardware & instructions included
- Solid steel construction

TV WALL BRACKETS								COMPARISON GUIDE
	Screen Size	Type	Max VESA Dimension (mm)	Weight Capacity kgs	Horizontal Adjustment	Vertical Adjustment	Spirit Level	Page
CW-2853	13" - 27"	Swivel	100 x 100	20	60°	-15°/+15°	•	100
CW-2851	13" - 27"	Swivel	100 x 100	20	180°	-15°/+15°		100
CW-2878	13" - 27"	Swivel	100 x 100	15		-35°/+55°		100
CW-2864	23" - 55"	Fixed	400 x 500	20			•	100
CW-2865	42" - 80"	Fixed	800 x 500	30			•	101
CW-2866	23" - 37"	Tilt	300 x 300	37		-15°/+15°	•	101
CW-2868	23" - 55"	Swivel	400 x 400	30	180°	-10°/+5°	•	101
CW-2867	42" - 80"	Tilt	800 x 500	60		-10°/+10°	•	101
CW-2859	37" - 70"	Swivel	700 x 400	82	360°	+5°/-10°		101
CW-2861	32" - 70"	Swivel	600 x 400	25	180°	-15°		101
CW-2869	32" - 70"	Swivel	600 x 400	35	180°	-10°/+5°	•	101
CW-2857	Most	Projector		10	360°	30°		102

LCD Monitor Wall Bracket with Cable Management

This full motion mount is able to tilt, swivel and rotate 360°. It features a cable routing management system and allows for an easy and fast installation with included hardware kit.

- Steel full motion flat panel mount
- Cable management system
- Easy and fast installation

SPECIFICATIONS	CW-2853
Suits	13-27" flat panel TVs
Tilt	-15°/+15°
Swivel	60°
Rotation	360°
Max loading	20kgs
VESA	75x75, 100x100
Distance to the wall	80mm



▲	13-27"	20kg	Cat.	Qty 1+	Qty 5+	Qty 10+
			CW-2853	\$39.95	\$35.90	\$31.90

LCD Monitor Swing Arm Wall Bracket

- Anti-theft full motion flat panel mounts
- Aluminium arms, plastic cover and cable management system
- Easy and fast installation

SPECIFICATIONS	CW-2851
Suits	13-27" flat panel TVs
Tilt	-15°/+15°
Swivel	180°
Rotation	360°
Max loading	20kgs
Max VESA	75x75, 100x100mm
Distance to the wall	80-442mm



▲	13-27"	20kg	Cat.	Qty 1+	Qty 5+	Qty 10+
			CW-2851	\$49.95	\$44.90	\$39.90

LCD Monitor Swing Arm Wall Bracket with Two Slide-In Locking Plates

An adjustable LCD screen wall bracket, which you can tilt and swivel to get the best possible viewing angle. The industry standard VESA mount supports most LCD screens between 13-27", with a weight up to 15kg. A second wall bracket is supplied so you can easily relocate the TV from inside to the outside (or another room) of your home or caravan. Supplied with spirit level and mounting hardware.

SPECIFICATIONS	CW-2878
Tilt angle	+55°up to -35°down
Swivel angle	180°left & right
Max. weight	15kg (33lbs)
VESA mounting system	75x75, 100x100
Extends	up to 382mm from wall
Wall bracket dimensions	158(H) x 66(W)mm



Great for caravans

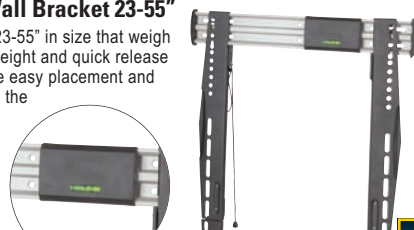


▲	13-27"	15kg	Cat.	Qty 1+	Qty 5+	Qty 10+
			CW-2878	\$59.95	\$53.95	\$47.95

Adjustable LCD Wall Bracket 23-55"

Designed for TVs from 23-55" in size that weigh up to 20kg. Adjustable height and quick release locking system to enable easy placement and removal of your TV from the bracket. Also features a spirit level built onto its Aluminium Frame.

- Type: Television
- Max Weight: 20kg
- Item Width: 46.2cm



▲	23-55"	20kg	Cat.	Qty 1+	Qty 5+	Qty 10+
			CW-2864	\$44.95	\$40.45	\$35.95

TV MOUNTING BRACKETS (CONTINUED)

Adjustable LCD Wall Bracket 42-80"

Designed for TVs from 42-80" in size that weigh up to 30kg. Adjustable height and quick release locking system to enable easy placement and removal of your TV from the bracket. Also features a spirit level built onto its Aluminium Frame.

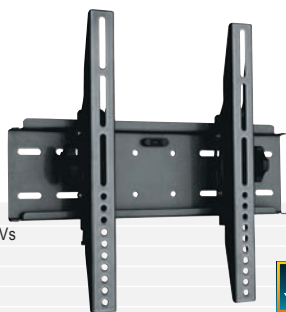
- Type: Television
- Maximum Item Weight: 30kg
- Item Width: 86.2cm



▲			Cat.	Qty 1+	Qty 5+	Qty 10+
	42-80"	30kg	CW-2865	\$54.95	\$49.45	\$43.95

LCD Monitor Wall Mount Bracket with 15° Tilt

- Universal tilting flat panel mount
- Cold rolled steel
- Easy and fast installation
- Angle free adjustment
- Lateral shift allows TV to move for perfect placement
- Spirit level



SPECIFICATIONS	CW-2866
Suits	23-37" flat panel TVs
Tilt	-15°/+15°
Max loading	37kgs
Max VESA	300x300
Distance to the wall	63mm

▲			Cat.	Qty 1+	Qty 5+	Qty 10+
	23-37"	37kg	CW-2866	\$34.95	\$31.45	\$27.90

LCD Monitor Wall Mount Bracket with 180° Swivel

- Universal flat panel mount
- Cold rolled steel
- Easy and fast installation
- Ultra-thin design
- Lateral shift which allows TV to move for perfect placement
- Spirit level

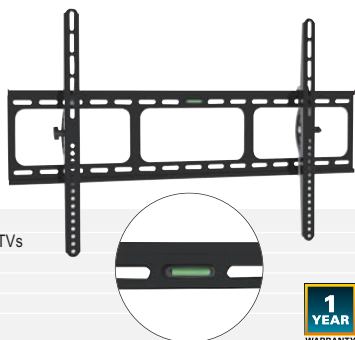


SPECIFICATIONS	CW-2868
Suits	23-55" flat panel TVs
Tilt	-10°/+5°
Swivel	180°
Max loading	30kgs
Max VESA	400x400
Distance to the wall	43-502mm

▲			Cat.	Qty 1+	Qty 5+	Qty 10+
	23-55"	30kg	CW-2868	\$79.95	\$71.95	\$63.95

LCD Monitor Wall Mount Bracket with 10° Tilt

- Universal flat panel mount
- Cold rolled steel
- Easy and fast installation
- Ultra-thin design
- Lateral shift which allows TV to move for perfect placement
- Spirit level



SPECIFICATIONS	CW-2867
Suits	42-80" flat panel TVs
Tilt	-10°/+10°
Max loading	60kgs
Max VESA	800x500
Distance to the wall	43mm

▲			Cat.	Qty 1+	Qty 5+	Qty 10+
	42-80"	60kg	CW-2867	\$69.95	\$62.95	\$55.95

FIND OUT MORE IN STORE

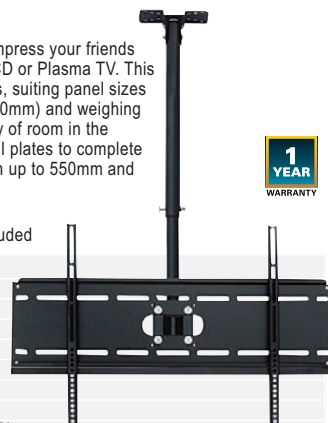
Our staff offer friendly and helpful service.
We're here to help.

Ceiling Mount Adjustable LCD Monitor Bracket

No longer is it an expensive exercise to impress your friends and neighbours with a ceiling mounted LCD or Plasma TV. This mount will be perfect for most installations, suiting panel sizes from 37 inches up to 60 inches (940 - 1780mm) and weighing up to 80kg - and the price will leave plenty of room in the budget for a new set of AV cables and wall plates to complete the installation. It allows vertical extension up to 550mm and forward tilt up to 15 degrees.

- Solid steel construction
- Mounting hardware and instructions included

SPECIFICATIONS	CW-2859
Suits	37"-70"
Tilt	-10°/+5°
Swivel	N/A
Rotation	N/A
Adjustable	380-620mm
Load	80kg
VESA	700 x 400
TV Mounting Plate	815(L) x 215(H) x 12(D)mm



▲			Cat.	Qty 1+	Qty 5+	Qty 10+
	37-70"	80kg	CW-2859	\$99.95	\$89.95	\$79.95

LCD Monitor Wall Mount Bracket with 180° Swivel

No longer is it an expensive exercise to impress your friends & neighbours with the contemporary styling of a wall mounted LCD or Plasma TV. This bracket will be perfect for most installations, suiting panel sizes from 32" up to 55" (810 - 1400mm) and weighing up to 55kg - and the price will leave plenty of room in the budget for a new set of AV cables and wall plates to complete the installation. The full motion ability allows extension up to 530mm, left/right swing up to 180° and forward tilt up to 15° so it is ideal for mounting in a corner or any other awkward position.

- Solid steel construction
- Mounting hardware and instructions included

SPECIFICATIONS	CW-2861
Suits	32"-55"
Tilt	-15°/+0°
Swivel	180°
Load	25kg
Vesa	600 x 400
Distance to the wall	42-532mm
TV Mounting Plate	740(W) x 425(H) x 25(D)mm



▲			Cat.	Qty 1+	Qty 5+	Qty 10+
	32-55"	25kg	CW-2861	\$119.00	\$106.95	\$94.95

LCD Monitor Wall Mount Bracket with 180° Swivel

- Universal flat panel mount
- Cold rolled steel
- Easy and fast installation
- Ultra-thin design
- Lateral shift which allows TV to move for perfect placement
- Spirit level



SPECIFICATIONS	CW-2869
Suits	32-70" flat panel TVs
Tilt	-10°/+5°
Swivel	180°
Max loading	35kgs
Max VESA	600x400
Distance to the wall	43-502mm

▲			Cat.	Qty 1+	Qty 5+	Qty 10+
	32-70"	35kg	CW-2869	\$99.95	\$89.95	\$79.95

LCD TV Adjustable Cable Harness Kit

Designed to easily tether any flat panel screen to the wall to prevent tipping that can cause screen damage. Also helps to protect children and pets from harm. Ideal for panels on AV tables within arms reach or in high traffic areas. The kit comes with adjustable tension cables which can be set to the desired length and clamped to a wall.

- Supplied with 2 x Wire Cables and 12 x Mounting Screws



▲			Cat.	Qty 1+
	Pack of 2		CW-2854	\$9.95

PROJECTOR MOUNTS

Extendable Universal Projector Ceiling Bracket

- Aluminium projector ceiling mount
- Fits for most projectors



SPECIFICATIONS	CW-2857
Tilt	30
Rotation	360°
Height adjust	240-310mm
Max loading	10kgs

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2857	\$59.95	\$53.95	\$47.90

CABLE MANAGEMENT

Cable Management Strip for TV Wallmounts

Get rid of unsightly cable arrangements with this stylish aluminium cable channel. Supplied with 4 mounting screws and 4 screw anchors, it will add a professional looking touch to your home cinema.

- Dimensions: 1000(L) x 60(W) x 20(H)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2877	\$19.95	\$17.95	\$15.95

Cable Management Sleeve

A flexible neoprene cable management sleeve for concealing all types of cables. Attach to a wall, behind a desk, under a TV or behind an entertainment unit. Then feed the wires through the sleeve holes and cut the sleeve to the desired length

- 2 x Hook and loop pieces with tape
- 1 x Cable management sleeve



▲	Cat.	Qty 1+
	CW-2856	\$14.95

Hidden Cavity Media Hub

This solves so many issues encountered when mounting TVs on a wall. Designed to be mounted in a cavity / stud wall, it has provision for up to five wall plates, or three wall plates and a small converter. Inside you can install whatever you need for HDMI connections, power points, antenna connections, or anything else you like. The cables are then fed through the hole in the front-plate for connection into your TV. It only protrudes from the wall by a few millimetres, so you could have it behind a flush-mounted TV and wouldn't even know it's there! Includes mounting hardware, just BYO wall plates and equipment. Note: GPO mains outlets should only be fitted using a licensed electrician.

- Holds up to 5 standard wall plates
- Discrete
- Can be painted
- Dimensions: 285(W) x 250(H) x 70(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	CW-2879	\$89.95	\$80.95	\$71.95

SCREEN MAINTENANCE

LCD Screen Cleaning Kit

Keep your computer, TV and other LCD screens clean with this easy to use kit. Remove dust and fingerprints without streaking, scratching or staining. The special solution removes those greasy fingerprints and the elastic anti-static brush and scratch free microfibre cloth are excellent for eliminating dust and grime.

- Elastic anti-static Brush
- Drip-free cleaning solution
- Special microfibre material which is capable of preventing panel scratch and will not harm LCD protective coating



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1418	\$13.95	\$12.45	\$10.95

SPEAKER BRACKETS

Adjustable Tilt & Swivel Speaker Wall Brackets

This two-piece swivel bracket is easy to install and is made of strong ABS plastic. Primarily designed for mounting small/medium sized speakers for surround sound setups or could easily be used for mounting security lights/CCD Cameras.

- Tilt: -10°/+10°
- Swivel: -90°/+90°
- Max Load: 5kg

Sold as a pair



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2803	\$14.95	\$13.45	\$11.95

Speaker Wall Brackets

Ideal for mounting home cinema effects speakers.

- Made from high grade glass reinforced nylon
- Suits small to medium speakers up to 5kgs (11 pounds)
- Fully adjustable in all directions
- Supplied with a comprehensive range of fasteners for many speaker types
- Black in colour

Sold as a pair



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2820	\$24.95	\$22.35	\$19.70

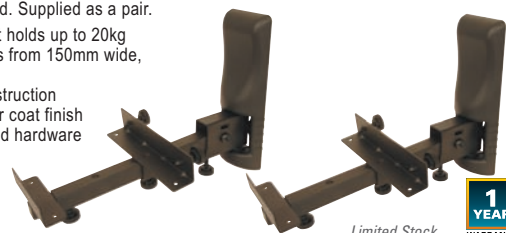
Adjustable Wall Speaker Bracket

If your listening room is a bit short on real estate, the answer may be to mount your speakers on the wall with a set of brackets. These brackets can be adjusted horizontally, vertically to tilt up to 20° or to fit speakers up to a depth of 370mm and as small as 80mm. Ideal for conference rooms, AV rooms, studios or small rooms where space is limited. Supplied as a pair.

- Each bracket holds up to 20kg
- Fits speakers from 150mm wide, 80mm deep
- All steel construction
- Black powder coat finish
- All fittings and hardware included

Sold as a pair

Limited Stock



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2840	\$39.95	\$35.90	\$31.90

Ceiling / Wall Speaker Bracket - Steel

This sturdy bracket has main axis angle adjustment by a diecast, toothed plate secured by a wing nut. The detents won't slip as can happen with ball types. Minor axis adjustment is by a handwheel with backup by lock screw. As a safety measure a steel wire lanyard easily secures the two halves of the bracket - a good safety feature that is common in professional P.A. Installations. The wall plate has holes for 4 x 6mm (or 1/4") screws. Another hole is provided for speaker wire egress. The speaker mounting plate has 4 x 4mm holes and also two slotted holes. Sold individually



SPECIFICATIONS	CW-2841
Max Speaker box weight	10kg
Angle Variation	Main - over 180° Minor - 360°
Wall mount plate	100(W) x 105(H) mm
Speaker mount plate	80(W) x 45(H) mm
Distance from speaker to wall	135mm

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2841	\$19.95	\$17.95	\$15.95



For Speaker Floor Stand see page 125

VESA MOUNTING STANDARDS

TECH TALK



The Video & Electronics Standards Association (VESA) has issued suggested standards for the attachment mounting systems for electronic visual displays also known as the Flat Display Mounting Interface. This is a family of standards defined by VESA for mounting flat panel monitors, TV's and other displays to stands or wall mounts, it is used on most modern flat-panel monitors and TV's. Whilst these standards are quite detailed the basic details of the standards involve the size of the display and the relevant spacing and sizing of the hole to mount the display.

The dimensions vary from 75 x 75mm to 800 x 400mm.

HOME ENTERTAINMENT

Centre Speaker with Bracket

Update or replace the centre speaker in your surround sound system with this great sounding speaker. It features 2 x 2.5" full range speakers rated at 15WRMS, housed inside a rectangular shaped speaker box to suit most existing systems.

- Supplied with adjustable swivel mount bracket for wall installations

SPECIFICATIONS	CS-2463
Speaker	2.5" x 2
Sensitivity	88dB
Power	15WRMS
Frequency range	60-20kHz
Impedance	8ohm
Dimensions	170(H) x 110(W) x 89(D)mm

Accessories not included



▲	15WRMS	Cat.	Qty 1+	Qty 2+	Qty 10+
		CS-2463	\$39.95	\$35.90	\$31.90



2.5" Indoor Lifestyle Cube Speakers

These cube speakers will blend with virtually any indoor setting and perfectly suit a home entertainment system or small PA setup. Surprising sound reproduction from the full range 2.5" speakers. Supplied with swivel brackets and mounting hardware suitable for wall or ceiling mount.

- Sold as a pair

Save a fortune over expensive Euro types

SPECIFICATIONS	CS-2431
Power handling	15WRMS
Impedance	8ohm
Sensitivity	88dB
Frequency response	150Hz - 20kHz
Dimensions	90(H) x 88(W) x 100(D)mm



▲	15WRMS	Pair	Cat.	Qty 1+	Qty 2+	Qty 10+
			CS-2431	\$39.95	\$35.90	\$31.90



Passive Bookshelf Speakers

These stunning bookshelf speakers are well built for your listening pleasure. Ideal for replacing your old failed speakers, or making use of the additional speaker channels already on your Hi-Fi receiver to pipe music in another room. They're compact but powerful, and sound great. At just over 2kg each, you can easily sit them on a shelf, or grab some speaker brackets to mount them on a wall. Spring loaded speaker terminals. Sold as a pair.

SPECIFICATIONS	CS-2459
Power Handling	2 x 10W
Nominal Impedance	4Ω
Frequency Range	70Hz - 20kHz
Weight	2.3kg (each)
Dimensions	150(W) x 190(D) x 230(H)mm (each)



▲	Cat.	Qty 1+	Qty 2+	Qty 10+
	CS-2459	\$79.95	\$71.95	\$63.95



Mini Projector with HDMI

This is a highly portable LED projector. By using a solid-state LED, it's more durable and won't require bulb replacement like traditional units. You can connect a HDMI, Composite, or VGA video source, or playback directly from a SD card. The projector displays at 800 x 480 pixel resolution, and will automatically downsample HD sources to suit. Ideal for office presentations, or the kids' playroom. Projection distance is up to 3m, which will provide around a 120" viewable size. A full featured remote control is included too.

SPECIFICATIONS	AP-4003
Resolution	800 x 480 pixels
Projection Distance	1 - 3m
Projection Size	32 - 120"
Aspect Ratio	16:9 or 4:3
Keystone Correction	+/-15°
Input	HDMI / Composite / VGA or SD Card
Battery	Remote requires 2 x AAA batteries (not included)
Dimensions	208(L) x 165(W) x 70(H)mm



▲	50 ANSI Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
		AP-4003	\$199.00	\$178.95	\$158.95



SoundBar TV Speaker with Bluetooth

With both wired and wireless connectivity, this sound bar provides exceptional value for money. Use it to provide high quality audio for your TV viewing pleasure. It's around 81cm long, so it sits perfectly in front of any size flatscreen, above a bed-head, or anywhere else you'd like quality sound in your home or office. It includes discreet feet to mount on a TV stand, and mounting hooks for blind-mounting on a wall. It incorporates dual two-way speakers, mounted into a vented enclosure for excellent quality sound. To get the music streaming, simply pair it with your smart device, laptop, or sound system via Bluetooth®. Don't have a bluetooth device? No sweat - just connect any line-level audio source to one of the two 3.5mm stereo line sockets. You can select the input source and control volume via the included infrared remote control, or the buttons on the side of the unit. Discreet LEDs on the front show you which input source is selected. The enclosure is finished in classic piano black, with a mesh fabric grill over the front speakers.

- Dual two-way speakers
- Bluetooth® or wired connectivity
- Remote & onboard controls



SPECIFICATIONS	XC-5226
Inputs	2 x 3.5mm Stereo or Bluetooth Streaming
Power Output	2 x 5WRMS
Frequency Response	130Hz - 16kHz
Power Input	14VDC @ 1A (Sound Bar - Mains Adapter Included), 3V CR2025 Battery (Remote Control - Included)
Weight	1.5kg
Dimensions	810(W) x 75(D) x 68(H)mm (Sound Bar - 85mm Deep Including Mounting Hooks), 86(H) x 40(W) x 6(D)mm (Remote Control)



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-5226	\$79.95	\$71.95	\$63.95



High Definition Set Top Box

Watch all the common free-to-air channels in high definition. If you're not home to watch your favourite shows, use a USB flash drive of your choice to record the programmes. The full-featured remote control offers total control over viewing, record/playback, and configuration from the comfort of your couch.

It features high quality Composite, Component, and HDMI video outputs, as well as Digital (Coaxial) and Analogue (RCA) outputs, to suit whatever options you have with your current equipment. The electronic programme guide enables you to view all available stations, and customise them into a group. You can also record and watch separate shows at the same time (though they must be transmitted from the same tower, eg. ABC2 and ABC3 - you cannot watch ABC2 and record Channel 7 for instance). If you have photos or video on your computer that you would like to watch, simply load them onto your USB device, insert it into the Set Top Box and you have full playback control!

- High definition viewing
- USB recording & playback

NOT AVAILABLE IN NEW ZEALAND

SPECIFICATIONS	XC-4929
Aspect Ratio	4:3 or 16:9 Selectable
Output Resolution	576i/p, 720p, 1080i/p
Compatible USB	Up to 2TB FAT32/NTFS
Record Time	Approx 2GB/hr in SD, 4GB/hr in HD
Input Frequency	177.5 - 226MHz, 522.5 - 830.5MHz
RF Input Level	-25 to -78dBm
Antenna Input	75Ω Pal Socket
Antenna Pass-Through	75Ω Pal Plug
Video Format	MPEG2, MPEG4 AVC / H.264
Video Output	Composite / Component / HDMI
Audio Output	Digital Coax / Analogue RCA



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	XC-4929	\$69.95	\$62.95	\$55.95

TURNTABLES

Retro Turntable with USB Encoding

Listen to your music "old school style" with this retro three-speed turntable. Perfect for taking your (or Mum & Dad's) 33s, 45s & 78s for a spin! Digitise your records with ease by recording them to a USB flash-drive. It doesn't just play records, it will also play music from your USB device or via the handy 3.5mm AUX input. The retro, briefcase-style outer includes two built-in speakers for portable play. Simply charge up the built-in lithium battery for two glorious hours of playing time on-the-go. Alternatively, for use with a large HiFi system, you can connect the turntable to your sound system via the RCA output on the back for an extra volume boost! The auto-stop switch can be used to override a record's preset auto-stop area, allowing the record to play right to the end. This turntable is fun, easy-to-use and makes for a great conversation starter at parties!

- Plays 33, 45 & 78RPM records
- Record to USB
- Built-in speakers
- Rechargeable

SPECIFICATIONS	GE-4077
Turntable Drive System	Belt Drive
Cartridge Type	Ceramic Stereo Stylus
Frequency Response	60Hz to 20kHz
Amplifier Power	2 x 2W @ 4Ω
Inputs	USB, AUX
Outputs	Internal Speakers or RCA Line-Out
Battery	1200mAh Lithium (built-in)
Charge Time	4 Hours
Operating Time	2 Hours
Speeds	Supports 33/45/78 RPM Vinyl
Mains Adaptor	5VDC 1A (included)
Dimensions	470(L) x 380(W) x 240(H)mm
Weight	2.87kg



NEW
2017

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Turntable	GE-4077	\$129.00	\$115.95	\$102.95
Spare Stylus - Pack of 2	GE-4137	\$19.95	\$17.70	\$15.70

4-in-1 Turntable Stereo Hi-Fi with CD Player

There's something about the smooth analogue sound of vinyl, that never gets old. Of course modern technology being fantastic too, we've combined a belt-drive turntable with a CD player and Bluetooth® streaming. You can even use a USB drive or the auxilliary input! Once you decide on your favourite media, they'll playback via the included speakers (or use the AUX output to connect to a larger system) to entertain for hours.

Includes remote control.

- Belt-Drive Turntable for 33, 45, 78s.
- CD Player and USB Port
- Bluetooth® Streaming
- Aux Input / Output
- AM/FM Radio



SPECIFICATIONS	GE-4100
Output Power	2 x 5W RMS
Bluetooth® Range	Up to 10m
Dimensions	295(L) x 320(W) x 150(H)mm
Speaker Size	140(W) x 210(L) x 210(H)mm (x2)



NEW
2017

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Turntable	GE-4100	\$199.00	\$178.95	\$158.95
Spare Stylus - Pack of 2	GE-4137	\$19.95	\$17.70	\$15.70

USB Turntable with Amp

Copy your LPs, 45s or even 78s straight to your PC, or simply listen to your record collection via the built-in amp and speakers. It also has auxiliary RCA outputs so you can run it to a separate amplifier. Finished in contemporary white piano finish with blue LED accents.

- USB cable and software included
- Contemporary look
- 320(W) x 265(D) x 85(H)mm
- Suits XP, Vista & MAC

USB & Analogue Audio Outputs



NEW
LOW
PRICE

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
USB Turntable	GE-4056	\$79.95	\$71.95	\$63.95
Spare Stylus - Pk 2	GE-4137	\$19.95	\$17.70	\$15.70

Portable Record Case

So you have purchased a portable record player, and you're taking it to a friend's place for a night of retro entertainment. But how do you transport your vinyl collection? Fear no more! This solid case will securely store up to 30 11" records, so you don't have to worry about them being damaged. Great for transport, or just to keep them safe from sticky hands at home.

- Dimensions: 350(W) x 180(D) x 370(H)mm



NEW
2017

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE-4101	\$49.95	\$44.95	\$39.95

TURNTABLE ACCESSORIES

Carbon Fibre Record Brush

Carbon fibre brushes are the best way to remove surface grit before playing vinyl records.

- Millions of microscopic hairs get into every groove and when you're finished
- Built-in handle has a cleaning bar to get rid of the dust from the bristles
- Essential for every turntable owner.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE-4051	\$14.95	\$13.45	\$11.95

Video, Audio & CD Drive Belt

A selection of high quality drive belts for repairs and maintenance of a wide variety of video and audio equipment. The pack contains 25 of the most popular sizes in a combination of square and flat belts. There are 21 square belts ranging from 23mm to 120mm and 4 flat belts covering 56mm to 93mm. Belts lean more towards video use.

D	T	W	D	T	W	D	T	W	D	T	W
23	S	1.7	40	S	1.2	70	S	1.2	93	F	10.0
23	S	2.0	45	S	2.0	71	S	1.2	97	S	1.2
24	S	2.0	56	F	8.0	72	S	1.2	98	S	2.4
24	S	1.2	60	S	1.0	76	F	6.0	114	S	1.8
26	S	1.9	68	S	1.2	83	S	2.0	120	S	1.2
26	S	1.8	70	S	1.0	91	F	5.8	120	S	2.3
32	S	1.2									



D = Inside dia in mm, T = Type (Square or Flat), W = Width in mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	HP-0650	\$19.95	\$17.95	\$15.95

CD + CASSETTE PLAYERS

Portable CD Player with Anti-Shock

Put that huge CD collection to good use with this portable CD player. These days, many Hi-Fi systems come with an iPod® dock but no CD player! This one doubles as a personal music device (if you dare take it running), or can serve as a CD player for your larger Hi-Fi system via the Aux input it probably has. If you do want to take it with you, a huge 60-second anti-skip protection is built-in to keep the tunes playing. Powered by 2 x AA batteries (not included) for portability or it can also be powered by a 4.5VDC plugpack (not supplied). Includes a set of earphones on a 1.15m cable.

- 60-second anti-skip protection
- Battery-powered
- Earphones included



NEW 2017

SPECIFICATIONS	GE-4085
Batteries	2 x AA (not included)
Anti-shock Protection	60secs
Dimensions	135(W) x 150(D) x 27(H)mm
Weight	195g (CD player excluding batteries), 13g (earphones)

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE-4085	\$59.95	\$53.95	\$47.95

Cassette to MP3 Converter

A totally self-contained cassette to MP3 converter. Simply insert your cassette tape, and your favourite USB drive, and you're ready to go! You can manually partition songs, or let the intelligent circuitry figure it out for you. No computer required, and it couldn't be easier! It's battery powered (2 x AA required) or power from a USB port (cable included). A set of earphones are included so you can listen while it's working too.



NEW 2017

SPECIFICATIONS	GE-4102
Power	2 x AA Batteries or Included USB Cable
Run Time	1 Hour
Audio	Stereo L/R
Bit Rate	128kbps
Weight	145g (Excluding Batteries)
Dimensions	116(W) x 94(H) x 35(D)mm

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE-4102	\$69.95	\$62.95	\$55.95

CONVERT VIDEO TAPE TO DIGITAL

Economy DVD Maker

An easy to connect USB to video adaptor which allows you to capture high quality video and audio through a USB 2.0 interface to burn your own high definition DVD/VCDs. It's capable of real time recording MPEG 4/2/1 video formats. The compact size makes it ideal to take along anywhere. Operating couldn't be easier; with the one touch grabber; simply push the button to start and push again to stop.

System requirements

- Pentium-IV 1.6GHz or higher (recommended)
- 256MB RAM
- Graphics card (must support DirectX 9.0c)
- Sound card
- 1GB free HD space
- Windows 8.1, 8, 7, Vista, XP, 2000

SPECIFICATIONS	XC-4991
Interface	USB 2.0
Video Input	Composite (RCA), S-Video
Audio Input	RCA Audio in
Capture video sources	VHS, V8, Hi-8, etc
Video & video formats	DVD, SVCD, VCD, MPEG-4, AVI, WMV, WMA, MP3
Image formats	JPEG, BMP
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000
Dimensions	52(L) x 50(W) x 27(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
PC only	XC-4991	\$39.95	\$35.90	\$31.90

USB 2.0 DVD Maker

Turn your aging collection of VHS and Betamax video tapes into new video productions or record live video straight to your DVD or CD burner. This powerful video recording and editing system will help you make your own DVD movies or family documentaries and uses the latest MPEG-4 compression to produce high-quality real-time recordings from practically any AV source. The powerful editing software lets you add colour and transition effects as well as sound tracks and titles to your work. Send copies of your completed movies on DVD or VCD to your friends and family and keep them up-to-date with the goings-on at home. The USB interface makes connection a snap so you can be making movies and editing them in no time. Powered by the USB connection.

- Supports USB 1.1 & 2.0 Plug-and-Play
- Resolution up to 720 x 576 @25 fps (PAL) or 720 x 480 @30fps (NTSC)
- Composite Video input via RCA connector or S-Video mini-DIN
- Stereo audio input via RCA connectors
- Audio output via 3.5mm stereo plug
- Capture box: 35(W) x 95(D) x 15(H)mm
- Compatible with Windows 10, 8.1, 8, 7, Vista, XP



1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
PC	XC-4867	\$64.95	\$58.45	\$51.95

DAB+ COMPONENT RADIO

DAB+ Radio Component

Designed to fit with standard size hi-fi components, this tuner offers a complete future-proof DAB+ radio solution; just sit it on top of your existing hi-fi receiver. Like all DAB+ devices, it displays program, artist, song and station information and has full preset memory functions. Not every station is currently broadcasting on digital, so there's also an FM section with station presets, auto-tuning etc. For anyone who's heard digital radio, the future is as crystal clear as the sound quality.

Limited Stock

SPECIFICATIONS	AR-1753
Outputs	RCA analogue, S/PDIF optical digital
Station presets	6
FM	88 - 108MHz
Dimensions	430(W) x 72(H) x 240(D)mm



NOT AVAILABLE IN NEW ZEALAND



1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1753	\$249.00	\$223.95	\$198.95

SHOW US YOUR BUILD COMPETITION

Laurance, who shops at our Jaycar Dubbo store built:

This is one of our mobile disco's which has been build using a lot of Jaycar products, that have come from the most helpful staff at Jaycar Dubbo. Where the staff have always gone above and beyond their duties to help me out.



PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!

PORTABLE RADIOS

Portable AM/FM Transistor Radio

Virtually unchanged for decades. This transistor radio provides AM/FM tuning in a compact package. It features a telescopic antenna, manual tuning dial, and physical frequency indicator. A 1-inch loudspeaker provides sound, or connect your favourite earphones.

- AM/FM selection
- Physical frequency dial
- Telescopic antenna
- Fits in the front pocket of your shirt



SPECIFICATIONS	AR-1458
Batteries	2 x AAA (not included)
Weight	60g
Dimensions	89(H) x 55(W) x 19(D)mm

NEW
2017

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1458	\$14.95	\$13.45	\$11.95

AM/FM/SW Rechargeable Radio with MP3

A tri-band compact, portable AM/FM/SW radio with built-in MP3 player & digital clock. Listen to local AM/FM stations or international programs on the SW band. You can also connect a USB drive or microSD card and listen to MP3 tracks. Features a blue backlit LCD for easy use in the dark. Built-in rechargeable Li-ion battery inside and charges via the supplied USB cable. Also features a 3.5mm headphone jack for private listening. Supports USB flash drive and microSD card (32GB max)

- USB charge cable supplied
- Not PLL



SPECIFICATIONS	AR-1721
FM	70-108MHz
MW	522-1710kHz
SW	5.95-21.85MHz
Connections	3.5mm headphone jack
Power	Built-in rechargeable Li-ion battery
Dimensions	114(L) x 70(H) x 25(D)mm

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1721	\$34.95	\$31.45	\$27.95

9 Band FM/MW/SW Pocket Radio

A powerful little radio capable of receiving FM/MW/ SW1-7 bands. Features full clock functions, an alarm, antenna, and a 3.5mm headphone jack for personal listening. Also features a handy fold-out stand so it can sit on a table at a comfortable viewing angle.

- Not PLL



SPECIFICATIONS	AR-1736
FM	88 - 108MHz
MW	530 - 1600kHz
SW	5.80 - 17.90kHz
Connections	3.5mm headphone jack
Power	3 x AAA batteries or 3VDC plugpack (available separately)
Dimensions	110(L) x 70(H) x 24(D)mm

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1736	\$24.95	\$22.35	\$19.70

SHOW US YOUR BUILD COMPETITION

Adam, who shops at our Jaycar Tuggerah store built:

This is a poker machine jukebox. I get an old broken Pokie and turn it into a jukebox. Complete with graphic equalizer and full use of buttons to operate menus sound that is amazing. I get a 12V converter to run a car amp that runs the speakers. This one pictured is an Elvis pink Cadillac. Thank you.



WORLD BAND RADIOS

WHAT IS WORLD BAND?

World Band Radios are those radios that are capable of tuning into radio programs generated by, say the British BBC, Radio Australia (Australian ABC Radio programs), Voice of America, Radio Vatican, etc. These programs are transmitted on a regular weekly basis in any one 24 hour period. It is generally preferable to use 24 hour time, linked to GMT (Greenwich Mean Time) which is the time it is in London (UK) so that confusion is eliminated as when the program is broadcast. There are dozens and dozens of programs from countries all over the world in the special languages of these countries. For example if you are an Australian citizen but originally from Greece, you can tune into stations that enable you to keep your knowledge of the language up to date. The stations typically have a lot of local news which you would normally not hear.

TECH TALK

The World Band stations are generally broadcast in several frequencies at the same time, typically between about 1.8MHz & 29.00 MHz, especially between 7 & 21MHz. You can look up the broadcasting details on Google etc.

Phase-Locked Loop (PLL) is a circuit configuration invented over 80 years ago. Originally the circuit was so complex that it only appeared in expensive radios. With modern microchip technology, the PLL got a lot cheaper. The benefits of PLL technology enabled receivers to remain on a station frequency with great accuracy. The radio circuit did not 'drift.' PLL technology, though still not cheap, is a hallmark of quality short wave radios and that's why Jaycar specifies them.

World Band AM/FM/SW/LW/AIR PLL Radio

A PLL world band radio loaded with a great list of features but easy to operate. Select from 5 available bands, FM, AM(MW, with 9 or 10k step), SW, LW and AIR bands. Tune to a desired frequency using the fast or slow scroll function and store up to 500 of your favourite radio stations. Includes carry case.

- Sleep function up to 120 minutes
- Manual, auto, or preset station search
- 3.5mm headphones output



SPECIFICATIONS	AR-1733
AM (MW coverage)	522 - 1620 kHz(9k), 520 - 1710 kHz(10k)
FM coverage	87.5 - 108.0MHz
SW coverage	2300 - 26100Hz
LW coverage	153 - 279kHz
AIR coverage	118 - 137MHz
Power	Requires 2 x AA batteries
Dimensions	120(W) x 75(H) x 30(D)mm

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1733	\$79.95	\$71.95	\$63.95

Pocket World PLL Radio with SSB

This is a very compact world band radio, covering the most popular frequencies. It features rapid digital tuning, loads of memory presets, and an easy to read display. Single Sideband Modulation (SSB) is used to obtain current reports, so is ideal for the keen fisherman or boating enthusiast too. The large internal speaker provides clear audio, or you can connect your favourite set of headphones instead. Powerful enough to receive what you want, and compact enough to take wherever you want.



SPECIFICATIONS	AR-1780
FM coverage	87.5 - 108MHz
MW coverage	522 - 1620kHz / 520 - 1710kHz
SW coverage	2300 - 26,100kHz
LW coverage	153 - 279kHz
AIR coverage	118 - 137kHz
Batteries	4 x AA (not included)
Weight	253g (Excluding batteries)
Dimensions	150(W) x 95(H) x 30(D)mm

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1780	\$129.00	\$115.95	\$102.95

WORLD BAND RADIOS (CONTINUED)

World Band AM/FM/SW PLL Radio

Truly an ideal radio for the casual user and the enthusiast. It offers FM, MW(AM) stations and three Short Wave (SW) stations which range from 1,711kHz to 29,999kHz for receiving international broadcasts. The analogue tuning is assisted with a digital display and a tuning step, select fast for scrolling through the frequency or slow for that fine adjustment. Uses a Phase-Locked Loop (PLL) to ensure a stable reception. This unit is built with high performance IC's and MOSFET's that provide high sensitivity, strong anti-interference, low background noise and distortion. Includes a large back lit LCD displaying the frequency, clock, battery level and signal strength indicator. Other features includes AM RF gain, AM bandwidth switch, internal/ external antenna switch, Local/DX antenna switch, IF out, total of 50 presets - 10 presets for each band (AM/FM/SW1/SW2/SW3), alarm function, snooze button, button lock, and the list goes on. Power options are 6 x AA (not included) used with supplied 6 x D size battery adaptors, 6 x D batteries (not included) or the supplied 9V PSU. Supplied with a carry strap.

- Large back lit LCD
- RF gain control
- Bass & treble controls
- Key lock
- IF output
- Line in and out
- Earphone socket
- Speaker 5W/4 ohms
- Local/DX antenna switch
- External antenna connection
- Internal full range speaker
- Mains or battery operated

SPECIFICATIONS	AR-1748
FM	87.5-108.0MHz
MW(AM)	522-1620kHz (9kHz); 520-1710kHz (10kHz)
SW	1,711-10010kHz; 9,990-20,010kHz;
	19,990-29,999kHz
Dimensions	310(W) x 195(H) x 100(D)mm



1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
World Band AM/FM/SW PLL Radio	AR-1748	\$179.00	\$160.95	\$142.95
Shortwave Passive Reel Antenna to Suit	AR-1947	\$19.95	\$17.95	\$15.70

World Band AM/FM/SW/AIR PLL Synthesised Receiver with SSB

Ideal for a novice ham radio licensor, keen fisherman or even just the outdoors type, this radio has everything you will ever need in a radio with the added function of single-sideband modulation (SSB). SSB is used to obtain current weather reports, so it is perfect to take to sea to avoid changing weather conditions.

However with great FM and AM coverage and battery operation it is also perfect for camping, BBQs and thanks to its world/local time selection clock and alarm, it can even be used as an alarm clock! Additional features include auto tuning saving, 500 memories and keypad direct entry. This is certainly a radio of many uses! Power options are 6 x AA (not included) used with supplied 6 x D size battery adaptors, 6 x D batteries (not included) or the supplied 9V PSU. Supplied with a carry strap.

- Large back lit LCD
- Bass & treble controls
- IF output
- Earphone socket
- Speaker 5W/4 ohms
- Local/DX antenna switch
- External antenna connection
- Internal full range speaker
- Mains or battery operated
- RF gain control
- Key lock
- Line in and out

SPECIFICATIONS	AR-1945
FM	87.5-108.0MHz
MW(AM)	522-1620kHz (9kHz); 520-1710kHz (10kHz)
AIR/SW	118 - 137MHz / 1799-29,999kHz
Dimensions	310(W) x 195(H) x 100(D)mm

HAS SSB!



1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
World Band Radio	AR-1945	\$219.00	\$196.95	\$174.95

Shortwave Passive Reel Antenna to suit AR-1748 & AR-1945

Designed for use with our shortwave radios (model AR-1748 and AR-1945) this reel antenna features two clips that attach to the telescopic rod antenna on the radio to boost reception. It's great for general reception improvement at home, when camping or on the road. When not in use just reel in the clips and it becomes a compact disc shaped package.

- Dimensions: 102(W) x 74(H) x 20(D)
- Max cable length: 7m



	Cat.	Qty 1+	Qty 4+	Qty 10+
Shortwave Passive Reel Antenna to suit	AR-1947	\$19.95	\$17.95	\$15.70

World Band Radio with AM/FM, SW & DAB+

A feature rich world band radio that covers FM/AM/LW/SW frequencies as well as DAB+ digital radio. It utilises a PLL synthesized receiver for a high level of stability so it stays locked to the station you have chosen without interruption to the receiving signal. It's capable of picking up international radio stations on the SW band and supports the Radio Data Stream (RDS) function for receiving digital information. You can change the frequency with the sensitive tuning dial or key in the frequency directly with the 0-9 keypad. Tuning step can be adjusted between fast, slow and stop for fine adjustments. The easy to read LCD will display frequency, time, and RDS. It can store 480 stations in memory with 20 preset DAB+ stations. There's also a 3.5mm headphone output socket for private listening and RCA line out and in. Includes a telescopic antenna. Requires either 4 x 1.5V C size batteries or 9VDC plugpack.

- Clock/snooze/sleep/alarm function
- Key lock button
- World/local time selection
- Tuning selection (fast/slow/stop)
- Keypad direct entry (0-9)
- ATS Function
- Telescopic whip antenna
- 9/10k step & 12/24 hour selection
- Auto/manual tuning
- Dual alarm (alarm A & B) selection
- Stereo/mono
- Wide/narrow bandwidth selection
- DAB/DAB+RDS function
- Electronic volume up/down
- 480 memory slots (DAB+ 20 presets)
- Built-in charging circuit
- Large LCD (time, frequency, RDS)
- Line in/line out
- 3.5mm headphone output



Note: Not all regions are capable of receiving DAB+.

NOT AVAILABLE IN NEW ZEALAND		Limited Stock
FREQUENCY COVERAGE	AR-1946	
FM	87.5-108MHz	
AM	522-1620kHz (9k)	
AM	530-1710kHz (10k)	
LW	153 - 279MHz	
SW	2.3-26.1MHz	
DAB+	174.928 - 239.200MHz	
Dimensions	294(W) x 175(L) x 76(D)mm	



1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
World band Radio DAB+	AR-1946	\$229.00	\$205.95	\$182.95

AMPLIFIERS - STEREO

2 x 18WRMS Stereo Amplifier

Low cost mains powered

This is a simple, fairly bullet-proof 18W/channel transistor amp and it's surprisingly loud! It is ideal as a small office or workshop PA amp in churches, community halls etc. It is protected from accidental speaker wiring shorts and if abused will simply shut down and reset after it has cooled off. It has a front panel microphone input, bass & treble controls as well as a master volume control.

• A suitable microphone for this unit is AM-4190.

SPECIFICATIONS	AA-0472
Power	240VAC 50Hz 150mA
Output	2 x 18WRMS/4Ω
Response	50-18kHz +3dB
Total Harmonic Distortion	0.08% @ 1W
S/N	60dB
Operating Temperature	0-50°C
Microphone Input	60mV @ 1k
Dimensions	170 x 77 x 157mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 18WRMS	AA-0472	\$39.95	\$35.90	\$31.90

2 x 15WRMS Portable Stereo Amplifier

This compact amplifier can run off 8 x AA batteries making it ideal for street performers, or by the AC adaptor included for a hi-fi setup at home or in the office. It outputs a clean 15 watts RMS per channel using a digital signal processor, and features spring-loaded push terminals for quick speaker wire termination and rear mounted 3.5mm stereo audio input. Includes a 1.8m 3.5mm male to 2 x RCA cable and 3.5mm plug to 2 x RCA socket adaptor for making connection to a PC, iPod®, MP3 player or portable CD player. Intelligent short-circuit and over-temperature protection ensure amplifier longevity. A great little amplifier for some serious use!

• Batteries not included

SPECIFICATIONS	AA-0487
Power Output	2 x 15WRMS
Minimum Speaker Impedance	4 ohm
Frequency Response	60Hz - 20kHz
Total Harmonic Distortion	<0.04%
Signal to Noise Ratio	>80dB
Dynamic Range	102 dB
Efficiency	88% (10W, 8 ohm)
Channel Separation	>45dB
Inputs	3.5mm Stereo
Dimensions	150(W) x 130(D) x 30(H)mm



Battery Powered



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 15WRMS	AA-0487	\$69.95	\$62.95	\$55.95

2 x 20WRMS Compact Stereo Amplifier

A very compact stereo amplifier, delivering 20WRMS to each channel. It's an ideal solution for powering speakers in an entertaining area, the garage, or anywhere you like. Gold plated RCA inputs are provided, with gold plated binding posts for speaker connections. A mains adaptor is included, but the 12-15VDC power requirement for the unit itself means it's also suitable for use in a vehicle, or on a boat. A power switch and volume control knob on the front give you the control you need, with nothing you don't.

SPECIFICATIONS	AA-0518
Amplifier Output	2 x 20WRMS
Audio Input	2 x RCA line level
Audio Output	Gold plated binding posts
Power	12-15VDC (Mains adaptor included)
Dimensions	92(W) x 150(D) x 43(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 20WRMS	AA-0518	\$129.00	\$115.95	\$102.95

2 x 25WRMS Compact Stereo Amplifier

A compact amplifier that can deliver up to 25WRMS of power per channel. It is ideal for home, office or a small workshop. Connect audio to the stereo RCA or 3.5mm line input, connect your speakers to the push down spring terminals, connect power and you're in business. There is also a 6.5mm microphone input on the front, making it ideal for a small office or workshop PA system. Controls include mic volume, music volume, bass and treble

• 18VAC 2.2A power supply included

SPECIFICATIONS	AA-0486
Power output	2 x 25WRMS
Output impedance	4 to 8ohms
Freq response	5Hz to 65kHz, +/- 3dB
S/N Ratio	72dB
Dimensions	216(W) x 65(H) x 150(D)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 25WRMS	AA-0486	\$129.00	\$115.95	\$102.95

2 x 25WRMS Stereo Amplifier

This is an ultra-compact stereo amplifier that packs some punch. With two 25W channels, it'll provide more than enough power for outdoor speakers, ceiling speakers, or even larger Hi-Fi speakers. There are three sets of auxiliary inputs with a rotary selection dial on the front. A volume dial gives you overall output control, while balance, bass, and treble controls allow further customisation of the sound. Simply plug in your input, connect your 8-16Ω speakers to the spring-loaded speaker terminals, and you're ready to go! Mains powered.

SPECIFICATIONS	AA-0517
Power	240VAC @ 50Hz
Output Power	2 x 25 Watts
Output Impedance	8-16Ω (Per Channel)
Weight	2.6kg
Power Cable Length	1m
Dimensions	172(W) x 223(D) x 75(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 25WRMS	AA-0517	\$199.00	\$179.00	\$159.00

2 x 50WRMS Compact Stereo PA Amplifier

Uses digital sound processing to deliver the quality of a Class AB amplifier with the efficiency of a Class D. Features solid aluminium body, high current rated banana socket speaker terminals, stereo RCA audio input, front panel mounted 3.5mm stereo input and a 6.5mm headphone socket means it also doubles as a headphone amplifier. Rounded off with short circuit, thermal and overload protection.

Package includes amplifier, 24VDC power supply, two sets of banana plugs, 3.5 to 6.5mm headphone adaptor, 3.5mm to 2 x RCA cable and coiled 3.5mm audio input cable.

Limited Stock

SPECIFICATIONS	AA-0488
Power Output	2 x 50WRMS
Minimum Speaker Impedance	6 ohm
Frequency Response	20Hz - 20kHz
Total Harmonic Distortion	<0.01 % @30W, <5.0% @ 50W
Input Impedance	2k ohm +/- 5%
Signal to Noise Ratio	103dB (A weighted)
Dynamic Range	>100dB
Efficiency	85%
Channel Separation	95dB
Inputs	RCA / 3.5mm stereo
Weight	450g
Dimensions	78(W) x 150(D) x 50(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 50WRMS	AA-0488	\$189.00	\$169.95	\$150.95

ADDICTED TO SOCIAL? WE'RE HERE TO CHAT - WHATEVER YOUR CHANNEL!



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youtube.com/user/JaycarVideo

twitter.com/jaycarau



AMPLIFIERS - STEREO (CONTINUED)

Stereo Amplifier Wall Plate with Bluetooth®

A fantastic solution that provides a powerful 15WRMS (per channel @ 4Ω) class-D stereo amplifier in a wall plate. Connect your favourite audio source via the aux input or pair via Bluetooth®, and use the onboard volume control to regulate overall level. The wiring for the speakers is behind the plate, allowing you to wire it directly to wall-mounted speakers elsewhere.

This is perfect for a bathroom, a waiting room, or any room you want to be able to pipe a little music to. Includes 12VDC mains power supply.



NEW 2017



SPECIFICATIONS	AA-0519
Audio Source	3.5mm stereo aux or Bluetooth
Bluetooth Version	3.0 EDR Compliant
Bluetooth Distance	10m
Amplifier Type	Class-D
Output Power	2 x 15WRMS @ 4Ω
Power Input	12VDC @ 2A (mains adaptor included)
Dimensions	70(W) x 113(H) x 25(D)mm (Including Volume Knob)

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 15WRMS	AA-0519	\$99.00	\$89.00	\$79.00

Fantastically Compact 65W RMS x 2 Class D Amplifier

This is an unbelievable product! Never before will you have seen such a powerful 2-channel (STEREO) amp in such a compact size! The amp itself measures a tiny 170(L) x 95(W) x 28(D)mm!! It has frugal controls: 1 x volume knob and an On/Off switch. On the back are the line-level RCA inputs and insulated speaker terminals, along with a DC plug for power. Supplied with AC Power lead, stereo 3.5mm plug to plug and stereo 3.5mm plug to RCA plugs. You must come in to one of our stores just to marvel at this thing!

Power supply (supplied, but separate): 36VDC @ 4.2A / 240V AC, 2.2A



NEW LOW PRICE

Limited Stock

SPECIFICATIONS	AA-0505
Freq resp	15Hz to 22kHz ±1dB
S/N	90dB (25kHz band limited)
Switching freq	1.45MHz
Sensitivity	430mVRMS
Power	2 x 65W (both channel driven)
Dimensions	170(L) x 95(W) x 28(D)mm

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 65WRMS	AA-0505	\$199.00	\$178.95	\$158.95

2 x 100WRMS Stereo Amplifier with Remote Control

A good looking, no-nonsense stereo amplifier that will form the heart of an impressive stereo system.

Rated at a generous 100WRMS per channel and has a flat frequency response from 50Hz to 20kHz. Bass and treble controls are fitted providing +/- 10dB cut or boost.

Equipped with microphone input level control, an infrared remote control & screw down speaker terminals.

SPECIFICATIONS	AA-0470
Power Output	2 x 100WRMS (4Ω)
Frequency response	20Hz to 20kHz
S/N ratio (A - Weighted)	70dB
THD	< 0.05%
Output impedance	4, 6 or 8Ω
Inputs for Tape	Tape Tuner, AV1, AV2, CD, Phono
Input impedance / Sensitivity	47kΩ / Phono - 2.5mV / Tape, Tuner, AV 250mV
Tape Out level	250mV
Dimensions	420(W) x 135(H) x 214(D)mm

1 YEAR WARRANTY



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
2 x 100WRMS	AA-0470	\$265.00	\$235.00	\$205.00

SHOW US YOUR BUILD COMPETITION

Derek, who shops at our Jaycar Tuggeranong store built:



This is a hybrid guitar amplifier. It uses the classic Silicon Chip 50 watt solid state output from 1994 and a two valve input pre-amplifier. An old TOA PA amp chassis was used to house it all. Novel use was made of a low voltage transformers in reverse to get the plate voltage for the valves.

SPEAKER SWITCHERS & TESTERS

4 Way Stereo Speaker Switch

Allows up to four pairs of speakers to be connected to a single entertainment unit or amplifier. Each pair of speakers may be individually turned on or off in any combination via the push-button selectors.

• Dimensions: 176(L) x 110(W) x 48(H)mm

1 YEAR WARRANTY



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AC-1618	\$29.95	\$26.95	\$23.95

Speaker Polarity Tester with Tone Generator

Ideal for troubleshooting and testing an audio system and installation. It offers an output range of 0-8 volts at a variable 13Hz to 10kHz tone for setting system levels, checking speaker crossover points, verifying connections and general trouble-shooting. It features a 9V speaker popper for visually testing speaker connection polarity. Connections can be made via included RCA or alligator clips. It also features an auto shutoff for extended battery life.

- Tone generator, speaker polarity and RCA cable tester
- Output Range: 0V-8V
- 9V speaker popper
- RCA or alligator clips
- Power: Requires 9V Battery
- Dimensions: 100(H) x 65(W) x 23(D)mm



1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0414	\$29.95	\$26.95	\$23.95

6 Way Speaker Selector Switch

This speaker selector box is perfect for anyone with a multi-room speaker system that they want to run from a master source. This selector box allows you to connect up to 6 pairs of speakers to your amplifier, and select any number of those pairs to play your music simultaneously. The outputs are all impedance matched so you won't ever damage the output stage of your amplifier.

- Solid metal construction
- Compatible with amplifiers up to 150 watts per channel
- Terminals accept up to 14-gauge wire
- Built-in protection circuit
- Dimensions: 285(W) x 180(D) x 55(H)mm



1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
6 Way	AC-1683	\$129.00	\$115.95	\$102.95

BUY ONLINE, COLLECT IN-STORE!

To check if your local store offers "Click & Collect" visit our website



IN-CEILING & WALL MOUNT SPEAKERS

6.5" 2 Way Ceiling Wi-Fi Speakers

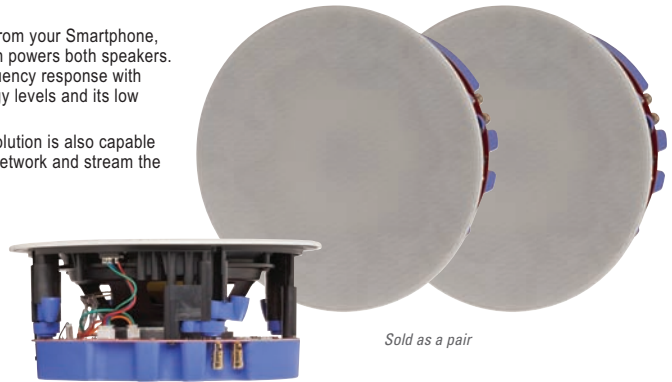
These Wi-Fi 6.5" ceiling speakers connect to your Wi-Fi network and stream music from your Smartphone, Tablet or computer. The master speaker incorporates a 2 x 50WRMS amplifier, which powers both speakers. Each speaker has a high quality Kevlar woofer and titanium tweeter for smooth frequency response with crisp highs. The strength of Kevlar helps the cone retain its shape at very high energy levels and its low mass assures quick, accurate response.

A great solution when you are unable to run speaker wiring through the walls. The solution is also capable for multi-room applications so you can connect multiple speaker pairs on the same network and stream the same audio on all rooms, or individual audio tracks to each speaker pair.

- Built-in Wi-Fi function, can be controlled by Smartphone/Tablet/PC
- Built-in Hi-Fi level amplifier: 2 channel 2 x 50WRMS
- 2 standard home Hi-Fi level in-ceiling speakers
- Kevlar Woofer
- Built-in Wi-Fi
- Supported audio format: MP3/WMA/AAC/ACC/ACC+/ALAC/APE/WAV
- Wireless network compatibility 802.11b/g/n
- Support online audio streaming media

SPECIFICATIONS	CS-2468
Frequency Response	65Hz-20KHz
Power	60WRMS
Impedance	8 Ohms
Sensitivity (1w/1m)	90dB
Woofer	6.5" Kevlar woven cone
Tweeter	1.2" Titanium dome
Treble Attenuation	+3dB/-3dB
Dimensions	230(L) x 230(W) x 100(H)mm

AMPLIFIER	
Type	Class D (digital)
RMS Power	2 x 50W/8 Ohms
Power Input	24VDC/5A



Sold as a pair



▲	6.5"	2 Way	Pair	Wi-Fi	Cat.	Qty 1+	Qty 4+	Qty 10+
					CS-2468	\$299.00	\$269.00	\$239.00

In-Ceiling 2 Way 6.5" Speaker In-Can Housing

A 2 way ceiling mount speaker which gives excellent audio quality due to an integrated housing on the back of the speaker. Being housed in a sealed metal can improves low frequency response as well as protecting the speaker from dust, debris, and insects. The housing also ensures speaker performance is not affected by variations in the ceiling space making it suitable for locations with false or raked ceilings.

Featuring a lightweight 6.5" honeycomb woofer and coaxial silk dome tweeter it can be flush mounted easily using the fold out retaining clamps or suspended in mid air using chain or cable attached to the housing brackets. A screw terminal cable entry is located on the back of the housing and a white clip on cover neatly conceals the speaker & mounting screws.

SPECIFICATIONS	CS-2462
Woofer	6.5" honeycomb cone
Tweeter	25mm silk dome
Tweeter mount	Fixed
Rated Power	40WRMS
Impedance	8 Ohms
Frequency Range	110Hz - 18kHz
Sensitivity	89dB
Minimum mounting thickness	10mm
Dimensions	A 232, B N/A, C 210, D 190 mm



▲	6.5"	2 Way	Each	Wired	Cat.	Qty 1+	Qty 4+	Qty 10+
					CS-2462	\$89.95	\$80.95	\$71.95

In-Ceiling 2 Way Speakers

These ceiling speakers are a 2 way speaker design giving excellent audio quality compared to traditional PA speakers. Combining a coaxial woofer with dome tweeter they are available in three sizes to cover a variety of domestic and commercial applications.

Two of the models also have adjustable tweeter mounts making them ideal when used in a home theatre setup by allowing you to direct high frequencies towards the centre of a room.

The flush mount design and fold out retaining clamps allow them to be easily installed in new or existing ceilings, and the matte white finish blends in with most ceiling colours.

- Sold as a pair
- 8 ohm impedance



SPECIFICATIONS	CS-2451	CS-2453	CS-2455
Woofer	5.25" polymer cone	6.5" polymer cone	8" polymer cone
Tweeter	25mm silk dome	25mm silk dome	25mm silk dome
Tweeter mount	Fixed	Swivel	Swivel
Rated Power	30WRMS	40WRMS	50WRMS
Frequency Range	200Hz - 18kHz	180Hz - 18kHz	120Hz - 18kHz
Sensitivity	87dB	88dB	90dB
Minimum mounting thickness	6mm	8mm	10mm
Dimensions	A 200, B N/A, C 170, D 60mm	A 230, B N/A, C 198, D 85mm	A 260, B N/A, C 228, D 85mm



▲	5.25"	2 Way	Pair	Wired	Cat.	Qty 1+	Qty 4+	Qty 10+
					CS-2451	\$59.95	\$53.95	\$47.90
	6.5"	2 Way	Pair	Wired	CS-2453	\$79.95	\$71.95	\$63.95
	8"	2 Way	Pair	Wired	CS-2455	\$99.95	\$89.95	\$79.95

SPEAKER SYSTEMS



CS-2475



CS-2476



CS-2477



CS-2478

ABS Indoor/Outdoor Speakers

Attractive in design, these 2 way speakers are very versatile. Suitable for indoor and outdoor (covered areas) applications, they can be mounted to a wall or ceiling and can be rotated 180 degrees for perfect sound projection. Each has a polypropylene woofer and dome tweeter. Ideal for conference rooms, auditoriums, lecture halls or out on the patio. Sold as a pair.

4" SPEAKERS
Cat. CS-2475

SPECIFICATIONS	CS-2475
Power Handling	25WRMS
Frequency Response	120Hz - 20kHz
Nominal Impedance	8 ohms
Cabinet Size	210(H) x 140(W) x 120(D)mm

5" SPEAKERS
Cat. CS-2476

SPECIFICATIONS	CS-2476
Power Handling	30WRMS
Frequency Response	100Hz - 20kHz
Nominal Impedance	8 ohms
Cabinet Size	245(H) x 185(W) x 168(D)mm

6.5" SPEAKERS
Cat. CS-2477

SPECIFICATIONS	CS-2477
Power Handling	40WRMS
Frequency Response	80Hz - 20kHz
Nominal Impedance	8 ohms
Cabinet Size	296(H) x 217(W) x 190(D)mm

8" SPEAKERS
Cat. CS-2478

SPECIFICATIONS	CS-2478
Power Handling	50WRMS
Frequency Response	50Hz - 20kHz
Nominal Impedance	8 ohms
Cabinet Size	345(H) x 285(W) x 220(D)mm



▲ Size	Cat.	Qty 1+	Qty 2+	Qty 10+
4" 2 Way Pair Wired	CS-2475	\$69.95	\$62.95	\$55.95
5" 2 Way Pair Wired	CS-2476	\$89.95	\$80.95	\$71.95
6.5" 2 Way Pair Wired	CS-2477	\$129.00	\$115.95	\$102.95
8" 2 Way Pair Wired	CS-2478	\$199.00	\$178.95	\$158.95

2 Way Active PA Speakers with Bluetooth® Technology

These indoor and outdoor active stereo speakers are great sounding and versatile speakers. Both speakers are two way system, utilising powerful woofers and good quality silk dome tweeters. Simply mount on the wall or ceiling and audio can be transmitted directly to the speakers via Bluetooth technology. Simple and easy to use, it comes with a power supply with a weatherproof locking connectors. Great for use in classroom environments, gymnasium, halls, pubs and clubs. Available in 5.25" (CS-2470) or 6.5" (CS-2472) to suit your application.

- Bluetooth® 3.0 source connectivity
- A2DP standard
- Compatible with A2DP standard

Sold as
a Pair

SPECIFICATIONS	CS-2470	CS-2472
Woofer Size	5.25"	6.5"
Tweeter	1/2" PEI Dome	1" Silk
Bluetooth® range	up to 10m	up to 10m
Output	30WRMS	50WRMS
Frequency response	80Hz - 20kHz	50Hz - 20kHz
Impedance	4 Ohms	8 Ohms
Dimensions	252(W) x 163(H) x 163(D)mm	302(H) x 196(W) x 194(D)mm

▲ Size	Cat.	Qty 1+	Qty 2+	Qty 10+
5.25" 2 Way Pair Wired	CS-2470	\$249.00	\$223.95	\$198.95
6.5" 2 Way Pair Wired	CS-2472	\$299.00	\$269.00	\$239.00

RELATED PRODUCTS

Speaker Attenuator - 100W

A neat and functional solution for controlling the sound level in your multi-room audio speaker installation. The attenuator has 12 step level and fits in a single gang wallplate mount. It allows connection of up to 8 pairs of speakers to one stereo amplifier while maintaining correct impedance match between amp and speakers.



▲ Cat.	Qty 1+	Qty 4+	Qty 10+
AC-1665	\$59.95	\$53.95	\$47.90

Speaker Attenuator - 70W

Attenuates the audio signal by 46dB on an 8-Ohm system.

- Graduated in 12 steps
- Stereo
- Accepts 16 to 22 gauge wire / Screw terminal termination
- Includes wall plate
- Cut-out measures 33 x 67mm
- 62mm mounting depth from finished wall required
- Wiring diagram supplied



▲ Cat.	Qty 1+	Qty 5+	Qty 10+
AC-1685	\$44.95	\$40.45	\$35.95

Speaker Ceiling Grilles

These grilles will suit our 4" speaker and our 8" 10 Watt speaker. White in colour.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
4"	AX-3550	\$4.95	\$4.45	\$3.90
8"	AX-3560	\$9.95	\$8.95	\$7.95

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* &

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*Conditions apply. See front of catalogue for details



RESPONSE PAPER CONE WOOFERS

These Response woofers are excellent for replacement or for new speaker design construction. Not only are they price competitive & perform very well, but they look fantastic! The concave treated paper cone matched with

rubber surround provides smooth overall response. Housed in strong steel frame baskets, high power magnet & voice coils, these drivers will produce massive quantities of clean bass output for any musical application.



RESPONSE



SPECIFICATIONS	CW-2190	CW-2192	CW-2194	CW-2196	CW-2198	CW-2199
Power handling	27WRMS	50WRMS	60WRMS	90WRMS	225WRMS	225WRMS
Nominal impedance	8 Ohms	8 Ohms	8 Ohms	8 Ohms	8 Ohms	8 Ohms
Frequency response	70Hz - 7kHz	70Hz - 7kHz	44Hz - 7kHz	38Hz - 4.5kHz	40Hz - 1kHz	28 - 550Hz
Sensitivity	86dB SPL @1W, 1m	88dB SPL @1W, 1m	89dB SPL @1W, 1m	89dB SPL @1W, 1m	90dB SPL @1W, 1m	90dB SPL @1W, 1m
Re	6 Ohms	6 Ohms	6 Ohms	6 Ohms	5.41 Ohms	5 Ohms
Qms	1.73	1.40	2.02	1.46	1.01	3.46
Qes	0.67	0.72	0.57	0.43	0.47	0.40
Qts	0.48	0.47	0.44	0.33	0.32	0.36
Vas	5 litres	7.3 litres	19 litres	42-45 litres	80 litres	135 litres
Fs	59.9Hz	67.6Hz	49.5Hz	28.1Hz	59.8Hz	23.1Hz

▲	A	B	C	D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
4"	116	109	93	65	CW-2190	\$24.95	\$22.35	\$19.70
5"	145	136	120	56	CW-2192	\$29.95	\$26.95	\$23.95
6.5"	178	168	145	77	CW-2194	\$34.95	\$31.45	\$27.90
8"	220	212	182	92	CW-2196	\$39.95	\$35.90	\$31.90
10"	258	245	235	110	CW-2198	\$64.95	\$58.45	\$51.95
12"	311	294	281	142	CW-2199	\$79.95	\$71.95	\$63.95

TWEETERS

One unit is magnetically screened for applications where the device may be near a CRT screen, Home Theatre for example. The Titanium dome unit has quite a high power rating for a dome tweeter.

Both are ferrofluid filled which keeps the voice coils cool and adds to reliability. We are delighted with these products.

25mm Titanium Dome Tweeter

This tweeter features a titanium dome with a phase shield which provides a more controlled high frequency roll-off. It produces very crisp & clear high frequencies.



SPECIFICATIONS	CT-2007
Power handling	50WRMS
Nominal impedance	8 Ohms
Frequency response	2 - 20kHz
Sensitivity	91dB SPL @1W, 1m



RESPONSE

▲	A	B	C	D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
	104	94	70	27	CT-2007	\$19.95	\$17.70	\$15.70

Response RSN1005 Piezo Tweeter

Does not require a crossover it's built in and is perfect for use for general PA applications where long throw is required.

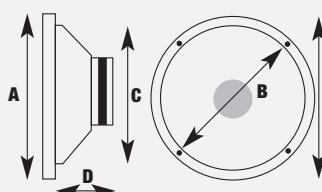
RESPONSE

SPECIFICATIONS	CT-1930
Power handling	100WRMS
Nominal impedance	8 Ohms
Frequency response	1 - 20kHz
Sensitivity	93dB @1W, 0.5m



▲	A	B	C	Dmm	Cat.	Qty 1+	Qty 4+	Qty 10+
	85	101	75	70	CT-1930	\$12.95	\$11.65	\$10.35

SPEAKER DIMENSIONS



A = From one side to the other
B = Mounting holes - diagonal
C = Cut out in millimetres
D = Depth

SPEAKER / EQUIPMENT CABINET FITTINGS

Strap Handle

Incorporates metal sections on each end which hold the handle, and the rubber strap part returns flat after use.

- Strap is steel reinforced.
- 2 x 8-10g screws required.

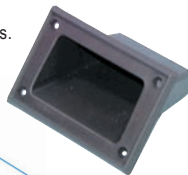
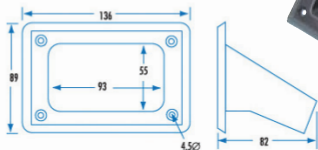


▲	Cat.	Qty 1+	Qty 5+	Qty 10+
255mm x 27mm	HS-8022	\$5.95	\$5.25	\$4.75

Pocket Handle

Suitable for chipboard speaker cabinets or metal enclosures.

- Panel cutout: 102 x 48mm
- 4 x 8-10g screws required



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	HS-8012	\$3.95	\$3.45	\$3.15

Metal Cabinet Handle

Quality plated steel cabinet handle. Recessed handle with black rubber grip and spring return.

- Cutout size 128 x 74mm.
- 10 x 8-10g screws required.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Black	HS-8016	\$9.95	\$8.75	\$7.75

Quality Equipment Feet

You have probably seen new up market Hi-Fi equipment with large round feet - they give the piece of equipment a high class look. Well, now you can do it to your own gear. They are made of black rubber, with a silver metal edge on the bottom. They mount with a screw and nut (not supplied). Size - dia 43mm, height 13mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Each	HP-0834	\$2.95	\$2.60	\$2.30

Plastic Locking Corner Piece

Heavy duty plastic moulded corner fitting featuring male/female inserts. These are designed to fit together so that pieces of equipment (the same size) can be stacked up and locked together.

- Ideal for stacking speaker boxes
- Has 4 x 4mm pan head fixing holes
- Dimensions 84(H) x 50mm each side



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Pack of 8	HM-3829	\$7.95	\$6.95	\$6.25

Hook & Loop Tape

Ideal for holding grilles on speaker cabinets. One side is glued or stapled to the box & the other to the grille. The grille then sticks to the box.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
300mm long	CF-2763	\$2.95	\$2.60	\$2.30

Spray-On Contact Adhesive

This pressure-sensitive contact adhesive is in an aerosol can, and bonds to paper, fabric, leather, rubber, foam, vinyl, concrete, metal, in fact almost any surface! No more spills and dribbles from a tube, or sticky screwdrivers (and plastic applicators) from applying glue to a surface. Great for laying innerbond and speaker carpet on speaker cabinets etc.

- Cannot be sent by air freight or post.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
400g	NA-1504	\$16.95	\$14.95	\$13.35

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

Flared Speaker Box Port

This port is flared to minimise air turbulence. It can be press fitted to the cabinet then sealed with caulk or silastic.

- Inner Dia: 58mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
120mm	CX-2688	\$4.95	\$4.45	\$3.90

650gsm Acrylic Speaker Damping Material

Used to line speaker boxes for standing wave/resonance absorption. Also very effective for making acoustic treatment like bass traps in sound rooms and studios.

- High density

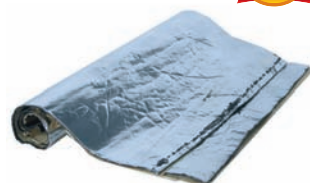


▲	Cat.	Qty 1+	Qty 5+	Qty 10+
700(W) x 1000(L)mm	AX-3694	\$12.50	\$10.95	\$9.95

Butyl Based Sound Deadening Material - 3.25m Roll

A staple of our range for many years, this heavy bitumen based lining material is ideal for reducing vibrations and noise transfer. The self-adhesive material can be easily moulded, cut, and stuck onto virtually any metal surface to add weight and decrease noise. Now available in a bulk roll for a limited time, these 3.25m rolls are ideal for larger jobs such as full vehicle restoration or lining the engine area on a vessel.

- Thickness: 1.5mm
- Temperature range: -10 to 110°C
- Roll Dimensions: 330mm x 3.25m



NEW
2017

NOT AVAILABLE IN NEW ZEALAND

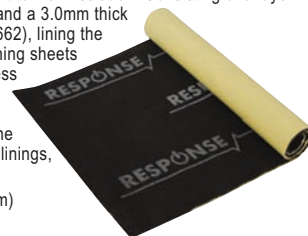
Limited Stock

▲	Cat.	Qty 1+
330mm x 3.25m	AX-3681	\$79.95

Combination Butyl/Foam Super Sound Deadener

Combining both the sound deadening properties of butyl material, and insulating properties of honeycomb foam, this is an easy single application solution for complete sound deadening and isolation that also offers thermal insulation. Consisting of a layer of our AX-3687 Butyl Based sound deadener and a 3.0mm thick layer of honeycomb foam (similar to our AX-3662), lining the cabin of your vehicle with these sound deadening sheets will give you drastically reduced road noise, less panel vibration and a cooler cabin temperature. Application is easy with the self adhesive backing and the ability to mould to the shape of the panel. Ideal for door skins, head linings, door cards and under bonnet insulation.

- Thickness: 4.5mm (1.5mm butyl, 3.0mm foam)
- Temperature range: -10 - 100°C



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
660 x 330mm	AX-3689	\$29.95	\$26.95	\$23.95

Butyl Based Sound Deadening Material

Give your vibrating buzz-box a luxury car ride with this butyl-based, foil backed sound deadening material. By adding weight to the metal panels of your car, such as door skins, boot lids, quarter panels, etc, you can stop nasty vibrations, reduce road noise, and give your doors and boot a nice solid "thud" when they shut. Each sheet is self-adhesive, and can be easily moulded, cut and stuck onto virtually any metal surface of your vehicle's body, giving you a pleasant, quiet and comfortable ride. Combine with our AX-3662 Sound Absorbing foam to add thermal insulation and eliminate low frequency humming from big exhaust systems for an even more comfortable vehicle interior.

- Thickness: 1.5mm
- Temperature range: -10 - 110°C



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
900 x 330mm	AX-3687	\$29.95	\$26.95	\$23.95

Grill Cloth

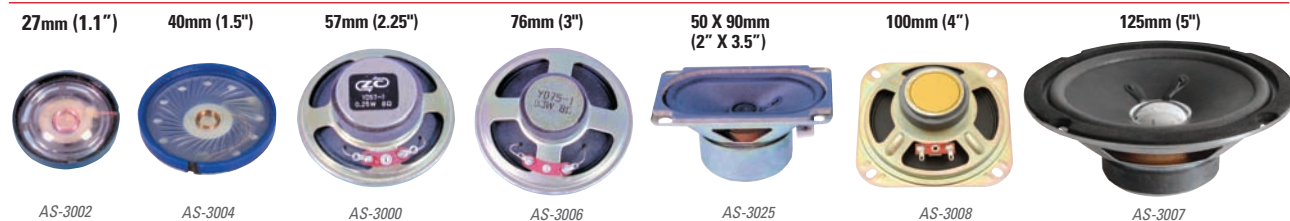
High quality, acoustically transparent grill cloth is ideal for protecting expensive drivers and allowing all of the sound to get through.

- Black in colour
- Supplied in a 1.5 x 1m pack



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	CF-2752	\$17.50	\$15.70	\$13.95

ALL PURPOSE REPLACEMENT SPEAKERS



▲ Size	Ohms	Wattage	Cat.	Qty 1+	Qty 4+	Qty 10+
27mm	8Ω	250mW	AS-3002	\$2.95	\$2.60	\$2.30
40mm	8Ω	250mW	AS-3004	\$3.50	\$3.15	\$2.75
57mm	8Ω	250mW	AS-3000	\$3.95	\$3.55	\$3.15
76mm	8Ω	1W	AS-3006	\$4.25	\$3.75	\$3.30
50x90mm	8Ω	5W	AS-3025	\$6.95	\$6.25	\$5.50
100mm	4Ω	2W	AS-3008	\$4.75	\$4.15	\$3.75
125mm	4Ω	6W	AS-3007	\$7.95	\$7.10	\$6.25

Shielded 8 Ohm Full Range Speakers

Full range speakers suitable for use in surround speakers in home theatre system, computer multimedia speakers and portable speaker designs. It has advanced alloy cone design coated with special damping material. See website for full specifications, frequency curves and technical drawings.

- Magnetically screened
- 4 x screw mounting holes



GENERAL DATA	AS-3030	AS-3032	AS-3034	VOICE COIL AND MAGNET PARAMETERS	AS-3030	AS-3032	AS-3034	T-S PARAMETERS	AS-3030	AS-3032	AS-3034
Nominal Power Handling (P _{nom})(W)	1	10	15	VC Diameter (mm)	19	25	20	Suspension Compliance (C _{ms})(uM/N)	626	356	920
Max Power Handling (P _{max})(W)	2	20	30	VC Length (H)(mm)	3.4	6	9	Mechanical Q (Q _{ms})	3.9	4.6	3.75
Sensitivity (2.83v/1m)(dB)	79	78	82	VC Former	CCAW	CCAW	Kapton	Electrical Q (Q _{es})	0.814	2.2	1.15
Weight (M)(Kg)	0.03	0.12	0.53	VC Frame	Kapton	Kapton	CCAW	Total Q (Q _{ts})	0.674	1.56	0.88
ELECTRICAL DATA				Magnet Former	Neodymium	Neodymium	Ferrite	Moving Mass (M _{ms})(g)	0.56	1.26	2.6
Nominal Impedance (Z)(Ω)	8	8	8	Force Factor (BL)(N/A)	2.3	2.2	3.06	Effective Piston Area (S _d)(m ²)	0.0005	0.0013	0.003
DC (Re)(Ω)	6.5	6.5	6.5	Gap Height (H _g)(mm)	1.5	3	3	Equivalent Air Volume (V _{as})(L)	0.04	0.2	1.19
				Linear Excursion (X _{max})(mm)	0.95	1.5	3	Resonance Frequency (F _s)(Hz)	270	260	100

▲ Size	Watts	Dimensions (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
1"	1	36(L) x 36(W) x 13.1(D)	AS-3030	\$10.95	\$9.75	\$8.75
2"	10	53(L) x 53(W) x 30.5(D)	AS-3032	\$16.95	\$14.95	\$13.35
3"	15	78(L) x 78(W) x 53(D)	AS-3034	\$19.95	\$17.70	\$15.70

70mm Flat Panel "Exciter" Speaker

Unlike a conventional speaker that creates audio waves by moving air as a result of the cone travelling in and out, this "exciter" speaker produces the audio waves by vibrating the flat panel it is fixed to. Install it on ceiling panels, under a table, on a wall partition, behind a fibreglass panel or other flat surface where a conventional speaker can't normally be used. They are low profile, and could be used in a sealed chamber in a marine application. Array them to increase sound level.

- Sold individually
- Power handling: 15WRMS
- Impedance: 8 ohms
- Voice Coil: 1.25" KSV
- Weight: 125g
- Dimensions: A: 70mm B: 62mm C: N/A D: 20mm



Looking for our Crossover Design Chart? Check the Primers section on our website.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Each	AS-3039	\$21.95	\$19.75	\$17.55

SHOW US YOUR BUILD COMPETITION



Dallas, who shops at our Jaycar Werribee store built:

Basically with a cheap PC and many trips to Jaycar for speakers, cable, switches, adaptors and cables, over the last year I have built my virtual pinball cabinet.

It even has tactile feedback using Exciter speakers so I can feel the ball roll and hit bumpers :) Next thing now is I want it to have a 40"!



RELATED PRODUCTS

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\$4.95
HP-0620



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FROM
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TD-2235



SCREWDRIVERS

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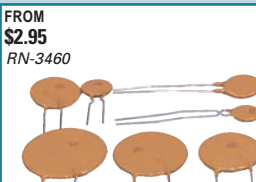
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\$2.95
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POLYSWITCHES

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EARPHONES - MONO & STEREO

Magnetic Earpiece

Magnetic 8 Ohm earpiece with 3.5mm plug connected. Suitable for radios, portable TVs, etc.

- Lightweight and easy to use



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3300	\$3.95	\$3.50	\$3.15

Crystal Earpiece

Crystal earpiece of high impedance with 3.5mm plug. Suitable for crystal sets or for experimental use.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3305	\$5.95	\$5.25	\$4.75

Stereo Inner Ear Earphones

Low cost inner ear phones that offer superb performance. Great replacement for your tired or damaged MP3 or iPod® players.

SPECIFICATIONS AA-2090

Speaker Diameter	10mm
Frequency range	20Hz - 20kHz
Impedance	32 Ohms +/- 5%
Sensitivity	105dB +/- 5dB
Max power input	10mW



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2090	\$6.95	\$6.25	\$5.50

Secure Clip On Earphones

These little beauties will stay put even when you are running or working out at the gym.

- 20 - 20kHz frequency response
- 96dB sensitivity
- 32 Ohms impedance
- 3.5mm stereo plug



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2023	\$14.95	\$13.35	\$11.70

Pillow Speakers

A safe and convenient alternative to headphones or earphones whilst listening to music in bed. Simply plug in an MP3 player, iPod® or radio and place into a pillow case.

- Perfect for children and adults alike.
- 1m lead with 3.5mm stereo plug
- No batteries required.
- 1m removable cable with 3.5mm plug

SPECIFICATIONS AS-3029

Impedance	16 ohm @ 1kHz
Rated power	0.1W
Maximum power	0.6W
Resonance frequency	500Hz ± 20%
Dimensions	60mm Dia. Approx



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3029	\$9.95	\$8.75	\$7.75

WIRELESS EARPHONES

Rechargeable Bluetooth® Audio Receiver with Earphones

This rechargeable audio receiver with earphones uses Bluetooth® technology to connect to your Smartphone or Tablet wirelessly. Its in-ear design can easily isolate outside noise, and you can freely control the switches and selection options. Features a unique clip-on design that allows you to wear it the anywhere you want. Perfect for a person who is always on the move, gym, jogging, etc. Supplied with a USB charging cable.

- Stereo
- Fashionable clip-on design
- Hands-free function



▲	Cat.	Qty 1+
Bluetooth®	AA-2093	\$24.95

Bluetooth® Sports Earphones

Exceptionally lightweight, this headset provides a quality audio experience without any cables! At just 11g, you might even forget you're wearing anything at all! But it doesn't end there, these are a full-featured headset. Tether them to your smartphone and they'll act as a full handsfree device. Accept or reject calls, control music playback and volume - and the integrated microphone means you can be at the gym and talking on the phone at the same time. They'll run for a full 2hrs before they need a recharge too.

- Phone controls / handsfree
- Ultra lightweight

SPECIFICATIONS AA-2135

Battery	Internal Rechargeable (MicroUSB cable supplied)
Weight	11g
Length	750mm

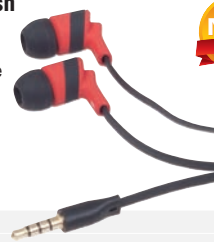


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Bluetooth®	AA-2135	\$29.95	\$26.95	\$23.95

Stereo Earphones with Rubber Finish

Comfortable, no fuss earphone replacements. They feature comfortable in-ear rubber pads, and the lead features a built-in microphone. The microphone block features a small button for call answer / hang up too.

- Quality audio
- Built-in microphone
- Phone control button



SPECIFICATIONS AA-2136

Weight	11g
Length	1.2m

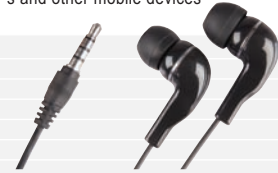
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2136	\$7.95	\$7.15	\$6.35

Stereo Inner Earphones with Built-in Mic

Quality stereo inner ear earphones with a built-in microphone. Enjoy hassle free music enjoyment without the inconvenience of having to remove your earphones when answering a call. Suitable for use with iPhone®s and other mobile devices where headphone mic is supported.

SPECIFICATIONS AA-2096

Speaker Diameter	10mm
Frequency range	20Hz - 20kHz
Impedance	32 Ohms +/- 5%
Sensitivity	105dB +/- 5dB
Max power input	10mW
Mic	-58dB±3dB



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2096	\$9.95	\$8.75	\$7.75

Earphone Replacement Pads

Earphone Foam Replacement Pads, 6 black sponge pads, for replacing soiled ones on earphones.



▲	Cat.	Qty 1+
Small - 17mm	AA-2013	\$1.00

SHOW US YOUR BUILD COMPETITION

Craig, who shops at our Jaycar Dubbo store built:



I have created a voice controlled robot head. The robot can talk the current temperature and be a little naughty. At times I have used an Arduino Mega as the main controller with a MP3 player as the voice. I have made a short video of my project
<https://youtu.be/vsQFNpJM0ac>

HEADPHONES - WIRELESS

Over Ear Stereo Bluetooth® Headphones

Totally self-contained with battery and Bluetooth®, so you can freely listen to your smartphone or music player (or Bluetooth® enabled Hi-Fi system) totally untethered. Of course they'll work from a standard 3.5mm audio source (cable included). Playback controls are featured on the side of the headphones, and their audio quality is fantastic. Of course these aren't just headphones - a built-in microphone gives you full hands-free capability for calls on your smartphone or gaming.

- Bluetooth or 3.5mm connection
- 10min auto power-off
- Built-in microphone



NEW
2017

SPECIFICATIONS	AA-2134
Battery	300mAh Rechargeable Polymer Li-ion Battery
Charge Time	Approx 2hrs
Usage Time	Approx 6hrs at 80% volume
Weight	303g
Dimensions	200(H) x 170(W) x 90(D)mm
Micro USB to 3.5mm Jack Cable Length	1.3m
Micro USB to USB Cable Length	560mm

1
YEAR
WARRANTY

▲	Bluetooth®	Cat.	Qty 1+	Qty 4+	Qty 10+
		AA-2134	\$49.95	\$44.95	\$39.95

Wireless Infrared Headphones - Twin Pack

Infrared headphones are an excellent choice for relatively steady listening. That means they're an excellent choice for TV-watching or gaming etc.

The base-unit will accept audio from any analogue input (3.5mm connection).

They have an effective range of around 6m (about the same as a remote control).

Two sets of headphones are supplied, which run from the same transmitter.

- No configuration required
- Two sets of headphones



NEW
2017

SPECIFICATIONS	AA-2037
Headphones Power	2 x AAA Batteries Each (Not Included)
Transmitter Power	12VDC Mains Plugpack (Included)
Transmission Distance	Up to 6m
Headphones Weight	247g (Excluding Batteries)
Transmitter Weight	67g
Headphones Dimensions	176(W) x 197(H) x 38(D)mm (When Folded)
Transmitter Dimensions	120(W) x 20(H) x 80(D)mm

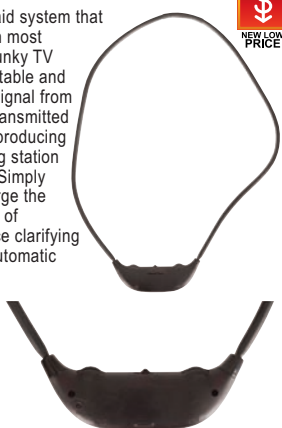
1
YEAR
WARRANTY

▲	Infrared	Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
			AA-2037	\$99.95	\$89.95	\$79.95

Infrared Hearing Aid Transmitter & Receiver

An ingeniously designed infrared TV hearing aid system that utilises tele-coil (t-coil) technology for use with most common hearing aids. Unlike other big and clunky TV hearing aid designs, this system has a comfortable and lightweight neck loop that picks up the audio signal from the infrared transmitter. The signal is then retransmitted electromagnetically to the hearing aid device producing crystal clear audio sound. The infrared docking station has facility for two T-coil receiver neck loops. Simply dock the receiver and it will automatically charge the internal lithium battery which provides 8 hours of continuous use on a full charge. Features voice clarifying and noise cancelling technology, it also has automatic signal, balance & tone controls.

- Phone hearing aid function
- Chatting hearing aid function
- Wired listening hearing aid function for MP3, radio, PC etc
- Tone control
- Balance control
- Auto power off function for transmitter
- Battery life 8 hours



NEW
LOW
PRICE

▲	Transmitter/Receiver	Cat.	Qty 1+	Qty 4+	Qty 10+
		AA-2099	\$99.95	\$89.95	\$79.95
	Spare TV Neckloop to Suit	AA-2103	\$49.95		

Noise Cancelling Headphones with Bluetooth®

Affordable wireless headphones with Bluetooth® streaming and active noise cancelling function, perfect for those long noisy bus, train or plane trips. The headphones are light, compact, stylish and comfortable, and will match the features and performance of brand name equivalents available in the market at 4 times its price. They feature a built-in rechargeable battery that will provide continuous play back of up to 30 hours, ANC (Active noise cancelling) feature that can be turned on or off via a switch, and a 3.5mm auxiliary input for wired connection. Supplied with 3.5mm stereo audio cable, 6.5mm adaptor, USB charging cable, a double 3.5mm mono airplane adaptor, and case to store the headphones that fold down to minimise space when not in use.



SPECIFICATIONS	AA-2130
Bluetooth® version	4.1
Bluetooth® operating range	up to 10m
Noise cancelling rate	85%
Audio impedance	32 ohms
Charging time	3.0 hours
Battery life	
Only noise cancelling on	30 hours
Only Bluetooth® on	15 hours
Bluetooth®+noise cancelling on	12 hours
Connection	3.5mm jack
Speakers	40mm Mylar



1
YEAR
WARRANTY

▲	Bluetooth®	Cat.	Qty 1+	Qty 4+	Qty 10+
		AA-2130	\$139.00	\$124.95	\$110.95

Wireless Stereo Headphones with TOSLINK

Stylish wireless headphones with a digital TOSLINK audio input to connect your digital devices such as home theatre system, gaming consoles, CD and DVD players. Audio clarity and sound reproduction is superb. It has a built-in rechargeable battery to allow you freedom to move around. The headphone docks to the transmitter snugly and charges when not in use. Supplied with a mains power adaptor, 3.5mm stereo audio and RCA leads. Headphones include 3.5mm stereo input.

- TOSLINK / 3.5mm stereo inputs
- Built-in FM radio
- Low battery alarm



SPECIFICATIONS	BOTH
Frequency response	22 - 20kHz
Signal-to-noise ratio	50dB
R/L channel separation	30dB
Carrier frequency	900MHz (AA-2083) 2.4-2.48GHz (AA-2086) (WLAN hopping)
Modulation	Digital
Maximum transmission power	9.9dBm
Radio tuning band	FM 87.5MHz to 108MHz
Transmission range	100m (AA-2083) 70m (AA-2086)
Transmitter power	5VDC or 3 x 1.5V AAA batteries
Headphone power	Internal rechargeable 900mAh Li-Po Battery
Transmitter only	180(W) x 100(H) x 74(D)mm
Transmitter with headphones	180(W) x 220(H) x 74(D)mm

1
YEAR
WARRANTY

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	900MHz	AA-2083	\$109.00	\$97.95	\$86.95
	2.4GHz DIGITAL	AA-2086	\$129.00	\$115.95	\$102.95

SHOW US YOUR BUILD COMPETITION

Ian, who shops at our Jaycar Ringwood store built:



Portable, pre-wired DVD player console. Four DVD/ media players, monitor, changeover switches and dozens of cables, mounted in a specially modified plastic container.
For the Whitehorse Film Society to switch between shorts, trailers and DVDs without delays.
Not pretty, but functional!

HEADPHONES - WIRED

Lightweight Heavy Bass Stereo Headphones

Designed for extra bass performance.

- Fully adjustable headband & speakers for greater comfort
- Supplied with 3.5mm plug and 6.5mm adaptor

SPECIFICATIONS	AA-2007
Driver diameter	34mm
Power handling	100mW
Nominal impedance	32 Ohms
Frequency response	20Hz - 20kHz
Sensitivity	100dB



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2007	\$14.95	\$13.35	\$11.70

High Quality Lightweight Stereo Headphones

Tipping the scales at a meagre 80 grams, these lightweight stereo headphones provide outstanding performance, clarity and comfort. Featuring high output drivers with neodymium magnets, they produce crystal clear sound with crisp highs and smooth bass response.

- Soft leatherette swivel ear pads, adjustable headset and 1.2m lead.

Best Seller

SPECIFICATIONS	AA-2061
Driver diameter	30mm
Power handling	50mW
Nominal impedance	32 Ohms
Frequency response	15Hz - 20kHz
Sensitivity	107dB



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2061	\$24.95	\$22.35	\$19.70

Over Ear Stereo Headphones

Nothing beats a quality set of headphones. With comfortable padding and adjustment for a perfect fit, these are a great choice - even for extended use. They sound absolutely superb and offer great value for money.

- Comfortable
- Adjustable
- Quality audio

SPECIFICATIONS	AA-2133
Frequency Range	20-20000Hz
Impedance	32Ohm
Sensitivity	110dB
Maximum Power Input	100mW
Plug	3.5mm Stereo Golden Plug
Microphone Frequency Range	-42+/-3dB (1kHz 0dB=1V/Pa)
Microphone Impedance	2.2KΩ
Microphone Sensitivity	-58dB +/-3dB
Cable Length	1.5m
Weight	309g
Dimensions	200(H) x 170(W) x 90(D)mm

NEW
2017



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2133	\$29.95	\$26.95	\$23.95

GIFT CARD

Can't find what to buy?
Give a Jaycar Gift card and
let them choose!



LEADS & ADAPTORS FOR YOUR HEADPHONES

Aeroplane Headphone Adaptor

Use your own headphones in an aeroplane. 3.5mm stereo socket to 2 x 3.5mm mono plug. Suits planes with 2 x 3.5mm sockets.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-3581	\$4.95	\$4.45	\$4.00

6 METRE Curly Extension Lead - Suits Larger Plug

6.5mm Stereo Plug to Socket



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	WA-7046	\$10.95	\$9.85	\$8.75

RELATED PRODUCTS

Headphone Extension Lead - Suits Smaller Plug

3.5mm Stereo Plug to Socket



We have dozens of Leads & Adaptors
to suit most applications

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
3 metre lead	WA-7046	\$10.95	\$9.85	\$8.75
3 metre curly lead	WA-7012	\$8.50	\$7.50	\$6.75
5 metre lead	WA-7011	\$9.95	\$8.75	\$7.75

HEADSETS WITH MICROPHONE

Rechargeable Bluetooth® Headset with Microphone

Lightweight headset with Bluetooth® wireless technology that can be connected with two Bluetooth® devices at the same time. Talk hands-free while driving, or connect to your Bluetooth® enabled PC or PS3 for hands-free chatting on Skype, MSN and other chat programs. Features anti-noise technology, voice command, last number redial and call rejection. The built-in Li-Po battery charges from a USB port (USB cable included). Compatible with Bluetooth® mobile phones and Smartphones.

- Bluetooth® V2.1 with 10m range
- Supports 2 multipoint connections
- Mono
- 3 hour charge time, 13 hour usage time
- 220 hour standby time
- Built in rechargeable Li-Po Battery
- Weight: 42g



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2080	\$49.95	\$44.90	\$39.90

USB Stereo Headset with Microphone

A true plug and play headset! It simply plugs into your computer's USB port and delivers excellent sound quality. The 38mm drivers ensure solid bass while maintaining a balanced response all the way up to 20kHz. The sensitive electret microphone is fitted to a flexible gooseneck and is fully adjustable. Perfect for gaming and VoIP communication. USB 2.0 compliant



HEADPHONES	AA-2032
Impedance	32 Ohm
Driver Diameter	38mm
Frequency Response	20Hz - 20kHz
MICROPHONE	
Sensitivity	-65dB
Sensitivity Pattern	Cardioid



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2032	\$39.95	\$35.90	\$31.90

Gaming Headphones with Adjustable Mic

A gaming headset designed for hardcore gamers who enjoy many hours of game-play and demand superior gaming audio, clarity, and bass. They are comfortable and adjust to different head sizes, look great and feature a microphone that swivels 120°. The microphone tucks away out of view when not required. The braided fabric audio lead is over 2m long and incorporates a volume control and mic mute switch.



HEADPHONES	AA-2126
Driver Diameter	40mm
Frequency Range	20Hz - 20kHz
Sensitivity	114dB ± 3dB
Impedance	32Ohm
Max. Input power	30mW
MICROPHONE	
Mic. Diameter	6.0 x 5.0mm
Sensitivity	-38dB ± 3dB
Directivity	Omnidirectional
Plug type	2 x 3.5mm stereo
Cable length	2m



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2126	\$49.95	\$44.90	\$39.90

LAPEL MICROPHONES

Tie Clasp Microphone

Electret condenser tie clasp microphone. Supplied with alligator clip to attach to tie or shirt and 2 metres of cable to 3.5mm plug. Ideal for lectures, stage, video recorders etc.



SPECIFICATIONS	AM-4092
Type	Electret condenser
Polar pattern	Cardioid
Impedance	1kohm
Sensitivity	-67dB ±3dB @ 1kHz
Frequency response	20Hz - 16kHz
Power requirement	1.5VDC 0.7mA max
Termination	2 metre cable, 3.5mm plug

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4092	\$19.95	\$17.95	\$15.95

Tie Clasp Condenser Microphone - Mono

With excellent sensitivity and low noise, this is the ideal add-on microphone for your digital voice recorder or other portable recording device that only has a tiny built-in microphone. It's very light and unobtrusive, so is ideal for recording interviews, conferences or webcasts.

- Output is to 6.5mm plug- cable length 1200mm.



SPECIFICATIONS	AM-4101
Type	Condenser, tieclasp
Polar pattern	Cardioid
Impedance	2.2kohms
Sensitivity	-66dB ±3dB @ 1kHz
Frequency response	50Hz - 20kHz
Power requirement	1.5VDC 0.6mA
Termination	1.2 metre cable, 6.5mm plug

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Mono	AM-4101	\$19.95	\$17.95	\$15.95

STUDIO MICROPHONE

Studio Style Microphone with Tripod Stand

Fantastic style and impressive sound make this microphone a great choice. The classic studio-style suspended cardioid pickup makes it far less susceptible to picking up bumps and knocks, so you'll have cleaner audio tracks. Powered by 48V Phantom power if you're using a studio mixing console (or DI box), or via USB (adaptor included). Great for podcasting, broadcasting, recording, and more. Balanced XLR output. Use the XLR cable for studios, or the XLR to 3.5mm for just about any input. Includes USB audio interface and tripod stand.

- 30Hz to 20kHz
- Low noise



SPECIFICATIONS	AM-4129
Pickup Type	Omni Directional Cardioid
Power	48V Phantom or USB
Output Impedance	250Ω
Weight	350g
Dimensions	Microphone: 40(Dia.) x 150(H)mm
Tripod Material	Zinc Alloy
Tripod Weight	180g
Tripod Adjustable Height	120-200mm

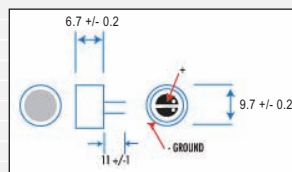
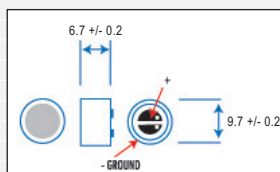
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4129	\$99.00	\$88.95	\$78.95

MICROPHONE INSERTS

Microphone Inserts

Replacement electret mic inserts for tape recorders and other low-cost microphones. Once power is supplied they work beautifully. For example, you can solder them to a PCB for a mic input. Used by OEM's. Omnidirectional.

SPECIFICATIONS	BOTH
Power	1.5V - 10VDC
Current consumption	<0.5mA
Frequency range	50Hz - 16kHz
Sensitivity	68dB +/- 3dB
Output impedance	<2.2k ohm
S/N ratio	>56dB
Dimensions	9.7(Dia.) x 6.7mm (+/- 0.2mm)
Pin length (AM-4011)	10mm (+/- 0.5mm)



▲ Description		Cat.	Qty 1+	Qty 4+	Qty 10+
Standard	Without Pins	AM-4010	\$2.35	\$2.09	\$1.85
Standard with Pins	With Pins	AM-4011	\$2.35	\$2.09	\$1.85

Stereo Tie Clasp Microphone

This is a lightweight tie-clasp mic, ideal for interview / documentary style recording when you can "mic up". It features two uni-directional electret condenser pickups to provide a true stereo output too. A 2m cable to 3.5mm plug is provided too.

- Stereo output
- Low impedance



SPECIFICATIONS	AM-4131
Frequency Response	100Hz - 16kHz
Weight	30g
Cable Length	2m

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Stereo	AM-4131	\$24.95	\$22.45	\$19.95

DECIBELS

TECH TALK

Contrary to much popular usage, the decibel (dB) is not actually a unit of any particular quantity, but rather an expression of the ratio between two quantities, such as, power, voltage, current, acoustic pressure. Many sensors, including our own ears, respond to stimuli in a logarithmic fashion, that is, an increase of 10dB Results in a doubling of loudness. This allows a huge range of intensities. As the dB compares the logarithmic quantities, it agrees with our perceptive comparisons.

To calculate the ratio, in dB, of two power levels, P1 and P2, the formula is: $dB = 10 \log (P1/P2)$

If the quantities are voltages, currents or sound pressure levels, X1 and X2, the formula becomes:

$$dB = 20 \log (X1/X2)$$

If the quantities X1 and X2 are both measured in the same impedances, their dB ratio will be numerically equal to the dB ratio of their equivalent powers. If their impedances Z1 and Z2 are unequal, the dB ratio of their power can be found from: $dB = 20 \log (X1/X2) + 10 \log (Z2/Z1)$

Negative dB ratios will result when P1 (or X1) is less than P2 (or X2), while positive values indicate that P1 (or X1) is greater than P2 (or X2).

SHOW US YOUR BUILD COMPETITION
Najam, who shops at our Jaycar Botany store built:



8-10 year old kids build a picnic plate speaker and drive it using Jaycar's Powertech Regulated Switchmode Laboratory Power Supply via a Jaycar 12W amplifier module, and learn the basics of audio electronics.

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.
We're here to help.

WIRED MICROPHONES & ACCESSORIES

Unidirectional Dynamic Microphone

Dynamic, unidirectional microphone with an anti-pop grille, built-in on/off switch and a plastic finish.

- Fixed 3 metre lead with 6.5mm plug.



SPECIFICATIONS	AM-4190
Type	Unidirectional dynamic
Frequency response	50Hz - 13kHz
Sensitivity	-50dB
Output Impedance	600 ohm
Termination	3 metre cable - 6.5mm plug



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4190	\$9.95	\$8.75	\$7.75

Unidirectional Dynamic Microphone - XLR

Dynamic, unidirectional microphone with an anti-pop grille, built-in on/off switch and XLR termination.

- Supplied with a 3m XLR to 6.5mm plug cable.



SPECIFICATIONS	AM-4192
Type	Unidirectional dynamic
Frequency response	50Hz - 13kHz
Sensitivity	-50dB
Output Impedance	600 ohm
Termination	3 metre cable - XLR plug



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4192	\$14.95	\$13.35	\$11.70

Boom Microphone Stand

Height adjustable with a boom that extends 600mm, so is suitable for vocals, overheads or micing up drum kits or pianos. Mic holder with 5/8" adaptor included.

- Steel construction
- Folds up to 850mm long



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4113	\$34.95	\$31.45	\$27.90

Desk Top Mic Stand

Designed for applications where you don't need a full-size mic stand. The build quality is excellent with diecast aluminium legs, steel column and padded feet.

- Adjustable up to a height of 200mm and folds up to 240mm long
- Includes mic holder with 5/8" adaptor



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4111	\$17.95	\$15.95	\$14.35

Dynamic Unidirectional Professional Microphone

With professional styling, it features a cardioid polar pattern for reduced background noise and feedback. This microphone is ideal for use in theatres, nightclubs, public address systems and recording. Excellent frequency response and tough metal construction make this microphone great value.

- XLR termination
- With 6m XLR to 6.5mm plug cable.



SPECIFICATIONS	AM-4099
Type	Unidirectional, dynamic
Polar pattern	Cardioid
Impedance	600 Ohms
Sensitivity	-72dB ±3dB @ 1kHz
Frequency response	60Hz - 12kHz
Termination	6 metre cable, 6.5mm plug



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4099	\$29.95	\$26.95	\$23.95

Unidirectional Balanced Professional Vocal Dynamic Microphone

A top quality balanced mic suitable for singing and band work. Similar performance to those costing \$200 or more.

- With 6m XLR to 6.5mm plug cable.
- Zinc-diecast, low impedance.
- Compare with the Shure® SM58!



SPECIFICATIONS	AM-4096
Type	Unidirectional, balanced dynamic
Polar pattern	Cardioid
Impedance	500 Ohms
Sensitivity	-76dB ±3dB @ 1kHz
Frequency response	40Hz - 17kHz
Termination	6 metre cable, XLR



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4096	\$44.95	\$40.45	\$35.95

Expanding Microphone Holder

This expandable microphone holder will accept standard 22mm tapered microphones and will expand to accommodate larger diameter mics.

- Fitted with a 5/8" x 27 thread
- Black in colour



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4107	\$6.95	\$6.25	\$5.50

Gooseneck Mounting Base

With 5/8" thread. Surface mountable for microphone & goosenecks.

- Solid metal construction
- Supplied with mounting screws
- Size 44mm base dia



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4130	\$5.95	\$5.25	\$4.75

Flexible Gooseneck

- Metal - 450mm long
- 5/8" male to 5/8" female fittings



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4127	\$14.95	\$13.35	\$11.70

See page 86 for Microphone Cables

RELATED PRODUCTS

FROM
\$1.75
SB-2426



BATTERIES

P63

FROM
\$39.95
SL-3509



LED MINILIGHT

P126

FROM
\$169.00
CS-2482



ACTIVE PA SPEAKER

P124

FROM
\$84.95
SL-3484



MAGIC LED LIGHT

P126

WIRELESS MICROPHONE SYSTEMS

Single Channel Wireless UHF Microphone

The microphone is supplied with a USB rechargeable battery pack or has an option to be powered by 2 x AA batteries (not included). The systems effective range is 50m on average, making it ideal for street announcers/performers, pubs, club functions, etc.

SPECIFICATIONS	AM-4108
Frequency	525.5MHz
Frequency response	60Hz - 13kHz
Transmission range	Up to 50m
Mic Power Supply	1 x Rechargeable Battery Pack (3.7V 800mAh Li-ion), 2 x AA (not included)
Receiver Power Supply	6 x AAA (not included)
Dimensions	Microphone 235(L) x 52(Dia.)mm, Receiver 85(L) x 63(W) x 19(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
Single Microphone	AM-4108	\$79.95	\$71.95	\$63.95

Single Channel Wireless UHF Microphone

This system is a great way to add a wireless microphone to a PA system. It provides XLR and 1/4" unbalanced outputs for use in any audio desk. The microphone itself has a power switch to save power, low battery indicator, and a classic metal-mesh finish. Ideal for schools, churches, weddings, gyms, karaoke etc.

- UHF Wireless
- Works with all PA Systems

SPECIFICATIONS	AM-4119
Frequency	525.9MHz
Transmission Range	60m
Microphone Power	2 x AA supplied
Pick Up	Dynamic
Dimensions - Microphone	236(L) x 52(Dia.)mm
Dimensions - Receiver	175(L) x 108(D) x 40(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
Single Microphone	AM-4119	\$99.95	\$89.95	\$79.95

Dual Channel Wireless UHF Microphone

This system is a great way to add wireless microphones to a PA system. It provides XLR and 1/4" unbalanced outputs for use in any audio desk. The microphones themselves have a power switch, low battery indicator, and a classic metal-mesh pickup cage. Ideal for schools, churches, weddings, gyms, karaoke etc.

SPECIFICATIONS	AM-4132
Frequency	Channel 1: 525.1MHz Channel 2: 645.9MHz
Transmission Range	Up to 60m
Microphone Power	2 x AA (Each) supplied
Pick Up	Dynamic
Dimensions	Microphones: 236(L) x 52(Dia.)mm Receiver: 175(L) x 108(D) x 40(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
Dual Microphone	AM-4132	\$129.00	\$115.00	\$102.00
Spare Headset Microphone Channel A	AM-4116	\$54.95	\$49.45	\$43.95
Spare Headset Microphone Channel B	AM-4118	\$54.95	\$49.45	\$43.95

WIRELESS MIC SYSTEMS

COMPARISON GUIDE

	AM-4108	AM-4119	AM-4132	AM-4155	AM-4160	AM-4165	AM-4170
Channels	1	1	2	2	2	2	2
Frequency	525.5MHz	525.9MHz	525.1MHz 645.9MHz	2.404 - 2.474GHz	2.404 - 2.474GHz	520 - 694MHz	520 - 694MHz
Transmission range	50m	60m	60m	20m	30m	50m	80m
Number of Microphones	1	1	2	2	2	2	2
Microphone Power supply	Rechargeable (3.7V 800mAh Li-ion) & 2 x AA	2 x AA	2 x AA for each microphone	2 x AA for each microphone	2 x AA for each microphone	1 x AA for each wireless microphone	2 x AA for each microphone
Page	120	120	120	121	121	121	122

WIRELESS MICROPHONE SYSTEMS (CONTINUED)

2 Channel 2.4GHz Digital Wireless Microphone System

This 2 Channel 2.4GHz Digital Wireless Microphone adopts ISM 2.4G digital audio frequency and automatically filters out radio interference. Features Smart ID code identifying synchronization technology and digital audio processing technology to provide a clear sound reproduction. The pre-set channels support multiple installations in KTV rooms without interference. It comes with an efficient battery power consumption design that helps the microphone to work continuously for up to five hours. Ideal choice for school and home entertainment.

The system includes two wireless microphones and a receiver unit.

SPECIFICATIONS	AM-4155	RECEIVER	HANDHELD MIC
Carrier Frequency	2.404-2.474GHz	Power Supply	12-17VDC
Available channels	2 channels	Power Consumption	2W
Band Range	2MHz	Signal/Noise Ratio	>95dB
Transmit Range	Up to 30m	Receiving Sensitivity	-80dBm
Dynamic Range	85dB	Transmitter Power	10mW
Total Harmonic Distortion	<0.1%	Modulation Type	GFSK
		Batteries Required	2 x AA
		Continuous Usage	5 Hours



	Cat.	Qty 1+	Qty 4+	Qty 10+
2.4GHz 2 Channel Digital Microphone	AM-4155	\$199.00	\$178.95	\$158.95
Spare Microphone	AM-4156	\$69.95	\$62.95	\$55.95
Docking Charger to Suit	AM-4162	\$69.95	\$62.95	\$55.95

Dual UHF Wireless Transmitter & Receiver for Wireless Microphone

This versatile dual channel UHF wireless system allows you to convert two XLR type wired microphones into wireless microphones. The receiver uses UHF 520-694MHz band to avert interference and features automatic frequency scan for an seamless operation in the available frequencies. It has 99 preset non-interfered channels. The receiver unit comes with an attached LCD display that clearly shows the RF level, AF level, channel and frequency. It also has two high gain antennas which provide a long wireless range up to 50 metres. Ideal for any professional field and media production work. The system includes the receiver unit and two plug-on wireless microphone transmitters. Microphones not included.

SPECIFICATIONS	AM-4165	TRANSMITTER
Carrier Frequency	UHF520-694MHz	Transmitter Power
Frequency Stabilization	<±30ppm	Modulation Type
Dynamic Range	>95dB	Deviation
Total Harmonic Distortion	<0.5%	Spurious Emission
Frequency Response	40Hz-15kHz±3dB	Frequency Stabilization
Audio Output Level	Balance 400mV, Unbalance 400mV	Battery Required
		Current Consumption



All wireless microphone & guitar links shown on this page & page 120 are approved to the latest Wireless Authority Standards.

	Cat.	Qty 1+	Qty 4+	Qty 10+
UHF Wireless Microphone System	AM-4165	\$279.00	\$249.00	
Spare Microphone Transmitter	AM-4166	\$79.95	\$71.95	\$63.95

Pro 2 Channel 2.4GHz Digital Wireless Microphone System

A professional 2.4GHz Digital wireless solution, this 2 channel wireless microphone system will not suffer from the frequency performance issues UHF solutions do (depending on the area, some UHF frequencies will experience interferences due to the digital dividend restack). This professional 2 Channel wireless microphone system adopts the ISM 2.4G digital audio frequency and automatically filters out radio interference. Features smart ID code identifying synchronization technology and comprehensive application of digital audio processing technology. Pre-set 16 selected channels, support multiple installation without interference. The device adopted an efficient battery power consumption design and the microphone can work continuously for five hours.

SPECIFICATIONS	AM-4160	RECEIVER
Carrier Frequency	2.404-2.474GHz	Power Supply
Available Channels	16 Channels	Power Consumption
Band Range	2MHz	Signal/Noise Ratio
Transmit Range	Up to 30m	Receiving Sensitivity
		Transmitter Power
		Modulation Type
		Batteries Required
		Continuous Usage



	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Channel 2.4GHz Digital Microphone System	AM-4160	\$299.00	\$269.00	\$239.00
2.4GHz Digital Wireless LCD Microphone to Suit	AM-4161	\$119.00	\$106.95	\$94.95
Dual Microphone Dock Charger and Battery to Suit	AM-4162	\$69.95	\$62.95	\$55.95

RELATED PRODUCTS

FROM
\$17.95
AM-4111



MICROPHONE STANDS P119

FROM
\$15.95
SB-1737



BATTERIES P57

FROM
\$39.95
AA-0472



AMPLIFIERS P108

FROM
\$8.95
PS-4152



BLACK EXTENSION LEADS P18

WIRELESS MICROPHONE SYSTEMS (CONTINUED)

2 Channel Dual Diversity UHF Microphone System

A professional solution suitable for stage use. This 2 Channel Dual Diversity UHF Microphone features a true diversity receiver and guarantees no dead spot in working area. Features advanced digital pilot technology with 30 preset group frequencies. Each group has 8 frequencies and can ensure 200 systems without interference. The infrared automatic scan feature helps to search available frequencies. The microphone has a splendid LCD display that shows the RF level, AF level and microphone battery voltage. You can adjust the transmitter power (High/Low) from the receiver. The transmitting distance can read up to 80 metres. The system includes two wireless microphones and a receiver unit with rack mounting hardware.

SPECIFICATIONS	AM-4170	RECEIVER	
Carrier Frequency	UHF520-694MHz	Power Supply	15-17VDC
Frequency Stabilization	<±30ppm	Power Consumption	3 Watt
Dynamic Range	>100dB	Signal/Noise Ratio	>95dB
Total Harmonic Distortion	<0.5%	Image & Spurious Rejection	>80dB
Frequency Response	40Hz-15kHz±3dB	Border upon Channel Rejection	>80dB
Audio Output Level	Balance 400mV, Unbalance 400mV	Receiving Sensitivity	5dBuV
		De-Emphasis	50uS



HANDHELD MIC	
Transmitter Power	30mW
Modulation Type	FM
Deviation	40KHz
Spurious Emission	>60dB
Batteries Required	2 x AA
Continuous Usage	5 hours

DUAL CHARGING DOCK & BATTERY KIT TO SUIT AM-4170 UHF MICROPHONE

A rechargeable dual charging dock supplied with 4 x Ni-MH batteries and mains power adaptor. This charging dock is suitable for our AM-4170 2 Channel Dual Diversity UHF Microphone.

- Power supply: 5VDC/1.5A(supplied)
- Charging time: 6 hours

AM-4173



Headset Mic may vary from the one shown



	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Channel UHF Dual Diversity	AM-4170	\$519.00	\$459.00	\$409.00
Spare Handheld Microphone to Suit	AM-4171	\$149.00	\$133.95	\$118.95
Spare Headset Microphone to Suit	AM-4172	\$149.00	\$133.95	\$118.95
Dual Charging Dock	AM-4173	\$99.95	\$89.95	\$79.95

MUSICAL INSTRUMENT INTERFACES

2 Channel Wireless UHF Guitar Link

Firstly, this unit complies with the latest UHF frequency allocations for short range wireless PA transmitters. It operates on either 520.5MHz or 532.9MHz, user selectable (It does not have 2 input channels). The transmitter is very compact with an almost unnoticeable 70mm long antenna. A 1/4" (6.5mm) phone plug on the unit simply plugs into the guitar body. Power is by 1 x AAA battery (not supplied). The receiver is very compact, measuring 115(W) x 80(D) x 25(H)mm. A telescopic antenna deploys to 270mm and folds down for transport. The front of the unit has pilot lights for RF signals, AF signal and power. A 12V AC adaptor is supplied to power this unit. Output is via a 3.5mm socket and a 3.5 to 6.5mm adaptor lead is included if necessary. The entire unit comes in a sturdy ABS box with internal foam inserts for the rough-and-tumble of road trips. Instructions supplied.

SPECIFICATIONS	AM-4109
TRANSMITTER	
Freq stability	0.002%
RF output	10mW
Power	Requires 1 x AAA
Range	60m max
RECEIVER	
Sensitivity	2µV (12dB)
Signal/noise	90dB
Power	Mains
Dimensions	115(W) x 80(D) x 25(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
UHF Guitar Link	AM-4109	\$99.95	\$89.95	\$79.95

USB MIDI Interface Cable

Connect any MIDI device to your computer: keyboards, controllers, instruments, sound cards, samplers, drum machines etc.

- Plug and play, no software or drivers required
- MIDI in and MIDI out connectors with LED indication
- Cable is 2 metres long



	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4934	\$29.95	\$26.90	\$23.70

Guitar Link for Smartphones

An easy-to-use adaptor that allows you to connect your electric or bass guitar, synthesizer, keyboard or similar instruments to an iPhone®, iPad® or iPod®. The built-in preamplifier boosts the signal, making it suitable for recording on your iOS® device (using the freely available App), or for connecting to an amplifier using the aux-out, which also accepts headphones if you want to play without disturbing the neighbours. The interface features 6.5mm (1/4") mono input and output jacks and a stereo 3.5mm (1/8") headphone/aux out jack. Using a freely available iOS® App you can record what you are playing to play back and share later.

- Requires 2 x AAA batteries
- Dimensions: 80(L) x 60(W) x 20(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-2052	\$39.95	\$35.90	\$31.90

Instrument & Microphone Link for Smartphones

Converts your iPhone®, iPad®, iPod® into a portable recording studio. Just connect it via the 3.5mm jack plug in a microphone or guitar to get recording with your favourite music-making app. The Link features phantom power to power condenser mics, and a headphone output to monitor from your iOS® device. Supplied with two AA alkaline batteries.

- XLR mic input for recording with studio-quality microphones
- 1/8" (6.3mm) headphone output for monitoring app output
- Hi-Z guitar input for great-sound recording
- Phantom power for condenser microphones

SPECIFICATIONS	AM-2054
XLR and 3.5mm TRS inputs	
Input level	-42dBu - + 2dBu
Maximum input level	+2dBu
Input impedance	2.4kΩ
Power requirements	2 AA batteries (when using the microphone input)
Operating time	up to 15 hours

CONNECTION PLUG	
Connector	3.5mm 4 pole plug, 150mm
Cable length	490mm
Dimensions	120(L) x 63(W) x 35(H)mm
PHONES/LINE OUT CONNECTOR	
1/8" (3.5mm) stereo mini jack	
GUITAR INPUT	
Connector	1/4" (6.3mm) phone jack
Nominal input level	21dBV
Maximum input level	-10dBV
Input impedance	470k Ω



	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-2054	\$69.95	\$62.95	\$55.95

MEGAPHONES

10 Watt Megaphone with Siren

A compact yet powerful personal megaphone. Operation is simple; select speak with the switch, speak into the microphone, and it will amplify your voice. Adjustable volume level and in-built siren as well. Handle folds away for easier storage and transportation, and there's a wrist strap for safety (especially when standing above a crowd).

SPECIFICATIONS	AM-4041
Power Output	10W
Range	200m (Approx.)
Power Source	Requires 4 x C batteries
Battery Life	8-10hrs.
Microphone	Unidirectional
Weight	700g (Excluding batteries)
Dimensions	135(W) x 230(D) x 210(H)mm (Handle folded out)



NEW 2017

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
10W	AM-4041	\$34.95	\$30.95	\$27.95

10 Watt Multifunction Megaphone with Message Recorder & Torch

Get your message across loud and clear with this megaphone. Battery operated, simple to operate and outputs up to 10WRMS. It features a volume control, alarm and whistle function and has a built in message recorder which allows you to replay announcements repeatedly. It even has a 3W high power LED torch for night time search and rescue applications. Ideal for sporting events, crowd control, peaceful rallies, or when evacuating a building.

• Strap included

SPECIFICATIONS	AM-4055
Power output	10WRMS
Sound level of horn	110-115dB
Requires	8 x AA batteries
Dimensions	270(L) x 162(W) x 235(H)mm



Limited Stock

NEW LOW PRICE

1 YEAR WARRANTY

	Cat.	Qty 1+
10W + Torch	AM-4055	\$49.95

25 Watt Megaphone with Siren

If you need to be heard in a crowd, this is a great way to do it.

Totally portable using 8 x C batteries (not included) for approximately 8-hours of operation. The powerful 25W amplifier and horn speaker will help your message be heard up to 500m away!

The microphone can detach from the back of the unit thanks to a curly cable, allowing you to hold the unit above your head (in a crowd), but still speak clearly into the microphone.

A built-in siren generator is also included, which is sure to get you attention. The shoulder strap makes it easy to carry and trigger activation provides straight forward operation and power-saving while not in use.

SPECIFICATIONS	AM-4042
Max Output Power	25W
Power Source	Requires 8 x C batteries
Effective Distance	Up to 600m
Battery Life	Up to 6 hours
Microphone	Uni-Directional Dynamic
Weight	1.45kg (Excluding batteries)
Dimensions	240(W) x 355(D) x 270(H)mm (without microphone attached)



NEW 2017

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
25W	AM-4042	\$69.95	\$62.95	\$55.95



For PA Horn Speakers see page 436

BUY IT ON THE WEB...

Shop for all these Jaycar Electronics products on our website - and check out our latest products & offers!

WIRELESS PA SYSTEMS

Portable Wireless UHF Microphone Headset System

The ultimate in personal amplification. This ingenious unit combines an ultra lightweight rechargeable wireless headset, and a compact rechargeable amplifier. This means you're not tethered to your amplifier, and you can spruik your message for 12-18hrs! Ideal for trade shows, demonstrations, or anywhere you want to be heard! The 10W amplifier and speaker pairs with the microphone, but can also be used in MP3 mode to playback from a USB flash drive (not supplied). Recharge both units using the supplied adaptors, and you're ready to go again! Buttons and an LCD screen on the amplifier give you total control, while the microphone features onboard volume control too.

- UHF wireless microphone
- Fully rechargeable amplifier and microphone
- USB playback (BYO drive)

SPECIFICATIONS	AM-4053
Playback Time	12 - 18hrs (6-10hrs for MP3)
Recharge Time	3-5hrs
Amplifier Power	10W
Frequency Response	90Hz - 18kHz
Weight	253g
Dimensions	90(W) x 110(L) x 40(D)mm



NEW 2017

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4053	\$99.95	\$89.95	\$79.95

Portable Wireless UHF PA System with Microphone

If you've ever wanted to shout a message to the world (who hasn't), here's your chance! Using a convenient wireless microphone and self-contained amplifier/controller. Not only will it amplify your voice, but stream music or backing tracks via Bluetooth or audio cable. A USB port and MicroSD slot provide dual functions - either as an additional audio source, or to record the whole show! The amplifier/controller features a built-in rechargeable battery to keep it running for hours, and features full on-board control for playback, EQ, volume, and more.

- Quality UHF microphone
- Bluetooth streaming
- EQ and built-in echo
- USB/MicroSD recording
- Aux input

SPECIFICATIONS	AM-4095
Output Power	30WRMS
Signal to Noise	>71dB
Frequency Response	20Hz - 20kHz
Weight	PA System: 2.9kg / Microphone: 245g
Remote Control	40g
Dimensions - PA System	260(W) x 290(H) x 130(D)mm
Dimensions - Microphone	245(H) x 48(Dia.)mm
Dimensions - Remote Control	146(H) x 45(W) x 15(D)mm



NEW 2017

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-4095	\$199.00	\$178.95	\$158.95

PA SPEAKERS - PASSIVE

12" & 15" Passive PA Party Speakers

Great quality and performance at very affordable prices. Incorporates long throw woofers and efficient compression drivers to deliver superb clarity and powerful bass notes. These rugged and durable plastic speakers have metal protective grilles and are supplied with a telescopic handle and luggage wheels for ease of portability. Perfect for parties, DJ applications, churches, conferences, etc. Speakon socket on rear

Limited Stock

SPECIFICATIONS	CS-2487	CS-2488
Power	150WRMS	180WRMS
Frequency Response	20Hz - 20kHz	18Hz - 20kHz
Sensitivity	96dB	98dB
Impedance	8 ohm	8 ohm
Dimensions	600(H) x 410(W) x 320(D)mm	680(H) x 470(W) x 390(D)mm

NEW LOW PRICE

1 YEAR WARRANTY



	Cat.	Qty 1+	Qty 4+	Qty 10+
12" Each	CS-2487	\$149.00	\$133.95	\$118.95
15" Each	CS-2488	\$169.00	\$151.95	\$134.95

PA SPEAKERS - ACTIVE

8" Portable Active PA Speaker

A compact but powerful 8" Active PA Speaker. This ultra-compact and lightweight speaker delivers superb audio clarity and power needed for your next party, event, conference, etc. The rugged injection moulded case incorporates handles on either side for portability and also has a secured speaker mounting hole on the bottom. It has RCA line level, XLR and 6.5mm microphone inputs and also features volume. 240VAC mains powered and is supplied with IEC lead.



SPECIFICATIONS	CS-2482
Output Power	80WRMS
Voltage	Mains powered
Frequency Response	65Hz - 20kHz
Sensitivity	92dB
Dimensions	380(H) x 220(W) x 195(D)mm



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
8"	Each	CS-2482	\$169.00	\$151.95	\$134.95

Portable Active PA Speakers

One of the great hassles with serious PA gear is having to moving them gig to gig. Our new range of Active PA speakers now come with a retractable handle and luggage wheels, so you can move them with ease without throwing your back.

These 2 way active PA speakers still produce great clarity and powerful bass through their long throw woofers and efficient compressions drivers. Feature strong and durable moulded enclosures and tough metal grille to protect the drivers, and now feature a Bluetooth® smart device for wireless audio streaming from your computer or Smartphone. Alternatively, you may use the USB or SD card slot to directly play your MP3 files. It also has RCA line level, 6.5mm microphone and balance XLR inputs.

- Represent great value for money
- Ideal for DJ, PA, schools, sporting events, churches, wedding, conferences, etc.



SPECIFICATIONS	CS-2483	CS-2484
Output Power	100WRMS	150WRMS
Voltage	Mains powered	Mains powered
Frequency response	25Hz - 20kHz	20Hz - 20kHz
Sensitivity	96dB	96dB
Impedance	8 ohms	8 ohm
Dimensions	550(H) x 370(W) x 300(D)mm	600(H) x 410(W) x 320(D)mm

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	10" Each	CS-2483	\$259.00	\$229.00	\$199.00
	12" Each	CS-2484	\$319.00	\$279.00	\$249.00

12" Portable Active PA Speaker with UHF Microphone

A powerful battery-powered all-in-one unit for parties, functions, and much more. It features a large 12" speaker and amplifier, as well as a range of input options. Play your backing tracks from a Bluetooth® source, auxiliary input, or use the built-in USB/SD card reader. An FM radio receiver is even included. The quality UHF microphone provides PA functionality, with its own level and reverb controls to mix it into the backing track playing. If you want to record a mix-down, the USB/SD card slots can be used for recording to your favourite media too. Control of inputs and playback is via the on-board control panel or included remote control, while a clear LCD provides information on current playback and settings. An LED light in the speaker box provides a little visual entertainment too. It's all contained into a robust unit on wheels, so it's ready to go anywhere.



SPECIFICATIONS	CS-2492
Output Power	40WRMS
Voltage	Mains powered
Frequency Response	60Hz - 20kHz
Sensitivity	≥71dB
FM Radio	87.5MHz - 108MHz
Charging Time	6-10hrs
Weight	11.3kg
Dimensions	350(W) x 630(H) x 325(D)mm (Handle not extended)



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	12" Each	CS-2492	\$249.00	\$219.00	\$199.00

15" Portable Active PA Speaker with Two Channel UHF Mics

A massive sound from a compact and versatile unit. A huge 300WRMS amplifier provides plenty of power to move the 15" woofer and large horn speaker. It includes two wireless microphones for MC/Karaoke. To keep the music pumping, connect your favourite music streaming source via Bluetooth®, or via a SD/USB. Playback controls and information are provided on the speaker. A line and external speaker output is provided for expansion also. Bass and treble controls accompany the master volume for fine tuning of your sound too. Everything is enclosed into a single heavy duty enclosure, with roller wheels on the back-side to assist with transport.



Due May 2017

SPECIFICATIONS	CS-2491
Output Power	300W
Voltage	Mains powered
Frequency Response	40Hz-20kHz
Sensitivity	98dB
Woofer	15"
Tweeter	34mm horn driver
Inputs	XLR / 1/4" Mic, XLR / RCA Line
Outputs	XLR Line Out, Speakon 8 ohm speaker out
Weight	20kg
Dimensions	470(W) x 712(H) x 415(D)mm



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	15" Each	CS-2491	\$469.00	\$419.00	\$369.00
	Suitable Speaker Stand - Each	CS-2493	\$49.95	\$44.95	\$39.95

10" Portable Active PA Speaker System with 2 UHF Microphones

This is a fully featured stereo PA system is made up of two 10" PA speakers with two powerful 75WRMS Class B amplifiers to drive them. All audio is managed through a comprehensive 8 channel audio mixer, and clear LCD. The mixer/amplifier is part of the main speaker during transport, but unclips when in use. The first 4 channels feature balanced/unbalanced inputs, bass/treble/volume, and an effects send through for the on-board digital effects processor. Channel 5/6 is a stereo unbalanced/RCA input, and channel 7/8 is a 3.5mm input. Phantom power is available on channels 1-4, and monitor/headphone pre-outs are provided too. A clear LCD provides feedback and control of SD/USB based playback, as well as Bluetooth® streaming from a compatible device. A remote control is also provided for reliable feedback of all operation.



SPECIFICATIONS	CS-2566
Output Power	2 x 75WRMS
Voltage	Mains powered
Frequency Response	75Hz - 19kHz (-3dB)
Mixer Inputs	4 x Mono Mic/Line, 2 x Stereo
Audio Sources	USB / SD / Bluetooth® Input (Selectable)
Weight	18.5kg (Combined)
Dimensions	305(W) x 490(H) x 320(D)mm (each)



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	10" Pair	CS-2566	\$549.00	\$489.00	\$439.00
	Suitable Speaker Stand - Each	CS-2494	\$29.95	\$26.95	\$23.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here!
Check our website for over
3,500 pages of data!



DJ EQUIPMENT

3 Channel Mini Mixer with USB Interface

Suits a small home studio or on-the-go recording enthusiast. Power using the supplied mains power adaptor or from the USB port of a computer. Supplied with mains power adaptor and USB lead.

- Ultra-compact and ultra-low noise analogue mixer with USB/Audio interface
- Built-in stereo USB/Audio interface to connect to your PC
- State-of-the-art Mic Preamps
- 2-band graphic EQ for warm and musical sound
- 2-Track input assignable to Headphone or Main Mix output
- Main Mix plus separate Phones output
- High-quality components & rugged construction



SPECIFICATIONS	AM-4208
Operating System	Windows® 2000, XP® or higher, Mac® OS 9.0.4, 10.X or higher
Power supply	USB, adaptor (5VDC, 500mA)
Power consumption	2.5W
Dimension	144(L) x 100(W) x 42(H)mm, 0.45kg

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
3 Channel	AM-4208	\$99.95	\$89.95	\$79.95

USB DJ Mixer

Spin up some tracks like a real DJ. Connect it to your favourite computer and control playback. Software is included, so it's all plug and play! There are two playback channels, complete with jogwheels and scratch effects. Built-in equalizer and sync modes help you wrangle your favourite tracks into mighty mixes. A range of effects are also built-in to keep things interesting.

Update your USB DJ Mixer software at: www.mixvibes.com

- Dual channel mixing
- Crossfade and effects
- Jogwheels and more



SPECIFICATIONS	AM-4209
Weight	1.083kg
Dimensions	480(L) x 190(W) x 40(H)mm
Cable Length	1545mm
Compatibility	Mac OS X10.6 +, Windows XP +
Supports	M4A, AIFF, WAV, MP3, FLAC and OGG audio files

▲	Cat.	Qty 1+
	AM-4209	\$99.95

EFFECTS LIGHTING

Mini Ultra-violet Fluoro Light with Torch

Use to detect counterfeit currency, to check for fake ID, gemstone and mineral inspection, or to just have fun by making objects glow. Includes small white spotlight.

- 4W UV lamp
- Hand carry strap
- Requires 4 x AA batteries
- Dimensions: 160(L) x 52(D) x 23(W)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	SL-3146	\$14.95	\$13.35	\$11.70

LED Festive Logo Projector

A fun way to theme your next festive event. The high powered LED projects the image onto any suitable surface. Includes 6 graphic plates to suit many occasions. Birthday Party, Happy Easter, Love, Happy New Year, Merry Christmas, and a flying witch for Halloween. It includes a baseplate and garden spike mounting option, and a mains power adaptor.



SPECIFICATIONS	SL-3402
LED Power	7W
Power Input	12VAC @ 1A (Mains Adaptor Included)
Total Power	10W
Waterproof	IP65
Weight	700g
Dimensions	140(W) x 180(D) x 170(H)mm

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	SL-3402	\$79.00	\$70.95	\$62.95

PA Speaker Stands

Lift your speakers up and over a crowd. These speaker stands have strong steel with rubber feet, and support speakers up to 50kg. Sold individually. Suits speakers with 35mm mounting hole.

Two models available:

SMALL

Height adjustable between 620mm & 1m. Cat CS-2494

LARGE

Height adjustable between 1.1m & 1.9m. Cat CS-2493

SPECIFICATIONS	CS-2494	CS-2493
Height	620mm-1m adjustable	1.1-1.9m adjustable
Max Load	Up to 50kg	Up to 50kg
Weight	1.7kg	3.3kg
Dimensions	90(Dia.) x 620(H)mm (Folded)	130(Dia.)mm x 1.1(H)m (Folded)



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
Small	Each	CS-2494	\$29.95	\$26.95	\$23.95
Large	Each	CS-2493	\$49.95	\$44.95	\$39.95

Adjustable Speaker Tripod Stand

If you want to adjust the height with a traditional speaker tripod stand, you have to first remove the speaker then adjust the height of tripod and reinstall the speaker. Whereas with this advanced adjustable tripod, you can adjust the height up and down with a rotary hand crank. This heavy duty tripod stand made from sturdy steel and supports up to 80kg of equipment on it. Features anti-slip rubber feet and a locking pin.

Sold individually (i.e. two needed for stereo)

SPECIFICATIONS	CS-2864
Height adjustment	1.4m - 2.2m
Capacity	80kg
Material	Steel
Upper shaft tubing	35(Dia.)mm
Length once folded	1.15m



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Each	CS-2864	\$99.95	\$89.95	\$79.95

40 Watt Blacklight Fluoro Tube

Used extensively for live music, discos, night clubs, and great for parties. At our new low prices, you can now afford them.

- Requires standard 40 Watt fluoro fitting.
- Dimensions: 1225(L) x 25(Dia)mm.

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Each	SL-3152	\$29.95	\$26.95	\$23.95

Rectangular Strobe Light - 24 LED

This strobe light has super high intensity LEDs, that will add the necessary life to any party and produce an eye catching array of lighting effects to attract attention.

- Adjustable flash rate



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
24 x White LEDs	SL-2895	\$19.95	\$17.70	\$15.70

Mini Strobe Light - Xenon

This unit uses a xenon flash tube and has a variable flash rate up to 10Hz.

- Operates on 240 VAC
- Supplied with a 1.7m cable
- Domestic use only
- Dimensions: 85(W) x 50(H) x 125(D)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Xenon	SL-2990	\$24.95	\$22.35	\$19.70

See page 249 for XENON Flash Tube

PARTY LIGHTING

Rotating Disco Ball with LED Spotlights

Create an amazing light show by hanging these lights on the ceiling to get the desired mood on your next party. Turn on and dance the night away with this brilliant mirror ball and LED spotlights station. It features an automatic rotating mirror ball, two adjustable angle spotlights with 6 red, green and blue LEDs each. It also has an additional 4 red and blue LEDs on the base for maximum effect.

- Mains power adaptor included.
- Dimensions: 260(L) x 130(W) x 230(H)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
LED RGB	SL-2916	\$39.95	\$35.95	\$31.95

Multi-Coloured LED Disco Ball

In days gone by, a mirror ball and spotlights was the best way to light up a dancefloor. But this single, compact unit will achieve a similar effect with less fuss. Let the disco ball take care of the hard work, and automatically sync to your music. If you'd like to see something in particular, take over with the included remote control. Easy! It's sure to keep the dancefloor rocking (just BYO music).



SPECIFICATIONS	SL-3509
LEDs	Red, Green, Blue, Yellow, White, Purple
LED Power	3W (each)
Sync Modes	Sound, Automatic, Remote Override
Power	30W
Adaptor	100-240VAC @ 50/60Hz
Dimensions	190(Dia.) x 163(H)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
LED RGB	SL-3509	\$39.95	\$35.95	\$31.95

9W Galaxy Magic LED Light with DMX

A LED moving stage light with 9 x 1W LED lights that produce 9 different colour combinations and effects. Select between automated colour patterns, sound activation or DMX controlled. Adjustable handle angle. Ideal for stage lighting, club and party applications. Comes with power supply & remote.



SPECIFICATIONS	SL-3484
Light Source	9 x 1W
Source Lifetime	Rated 200,000 hours
Power Supply	100-240V 50-60Hz
Rating Power	10W
DMX Channels	7
Play Mode	Auto, Sound Active, DMX512, Remote



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
9 x 1W LEDs	SL-3484	\$84.95	\$76.45	\$67.95

18 x 1W RGB LED Par Stage Light

Add some colour to your stage or next party with these par lights. Each light features super bright LEDs that can change colour between white, red, green and blue, which can be controlled using the built-in program, sound activation via the built-in microphone or from a DMX controller (available separately). The supplied bracket allows you to mount the light permanently or placed on a table for temporary use. Two models to choose from.

- DMX512 control
- Mains powered
- Fan cooled

ST-3600



ST-3602



SPECIFICATIONS	BOTH MODELS
LED colours	Red, Blue, Green and White
Control modes	Sound Activation, Built-in program, master-slave, Remote control
Dimensions	175(L) x 175(H) x 105(D)mm
Weight	930g

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
18 x 1W LEDs	ST-3600	\$74.95	\$67.50	\$59.95
7 x 4W LEDs	ST-3602	\$119.00	\$106.95	\$94.95

Lighting Stand

This strong and sturdy lighting stand will extend from a minimum height of 1,530mm to a maximum of 3,650mm and is designed to carry up to 20kgs on the square section cross tree.

An integrated tripod support has collapsible legs that extend up to 750mm from the centre line of the stand, giving an overall base of 1,500mm which provides good stability even when the stand is fully extended.

The cross tree has 4 bolts for attaching up to 8 Pin Spots or other attachments.

The entire stand is finished in matt black.



1.5m

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	CL-2800	\$109.00	\$97.95	\$86.95

Power Light "Partybar" Kit

This unit consists of a sturdy metal stand that deploys from 1.3m to a massive 2.15m (over 7 feet.) The light bar fits perpendicularly to the stand which holds 4 x gymbal mounted high efficiency multicolour par light units 250mm Dia. with 3 LED lamps in each. The entire system is connected together with leads (supplied) and connected to a foot-operated controller. Supplied with Mains (240V) connector, T-bar, stand, footswitch and carry bags.

- Ob-3 channel control & 15 DMX channels.
- 12 built-in auto programs.
- Easy trigger-music activated mode
- Easy to break down at end of gig
- Creates superb colour wash effects
- Variable flash rate
- Light bar dimensions: 910(L) x 242(H) x 48(D)mm

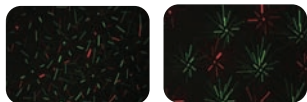


▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Party Light Bar Kit	SL-3469	\$379.00	\$339.00	\$299.00

LASER LIGHTS

Mini Stage Laser Light with Battery

Now there's no excuse for a dull party! With a portable laser light show it's almost impossible to not have a great time! Ideal for backyard parties, temporary installations, or anywhere a laser light show would be fun.



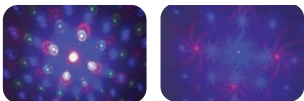
SPECIFICATIONS	SL-3450
Lasers	Red 650nm 110mW, Green 532nm 50mW
Internal Battery	2800mAh
Burn Time	4-6hrs
Recharge Time	6-8hrs
Weight	280g
Dimensions	112(L) x 65(W) x 43(H)mm

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Mini Laser	SL-3450	\$69.95	\$62.95	\$55.95

Red/Green/Blue Mini Laser Light Show

A very compact unit, but houses three lasers - red, green, and blue. It creates an array of dazzling effects with 16 different display patterns, and can either run independently, or pick up on the beat of the music. Alternatively, use the included remote control to select the display pattern, speed, and modes. Mains power supply included, so you just plug and play!



SPECIFICATIONS	SL-3454
Laser Power Rating	Red: 100mW, Green: 40mW, Blue: 120mW
Weight	1kg
Dimensions	135(L) X 105(W) X 55(H)mm

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Mini Laser RGB	SL-3454	\$199.00	\$178.95	\$158.95

Outdoor LED & Laser Light

Fairy lights are fun, but imagine at your next party your visitors arrive to a stunning laser show projected onto your house. It takes seconds to install, and is sure to get everyone in the partying mood! It combines a red and green laser with a high power LED for a stunning array of visual effects. It's also a great addition for festive lighting to help avoid any "dead areas" where you don't have other lights. Includes a remote control so it can easily be mounted out of reach if needed. It includes a mounting stand and garden spike, as well as a mains power adaptor.



Note: Garden spike also included



SPECIFICATIONS	SL-3401
Laser Power	Red: 100mW, Green: 20mW
LED Power	3W
Power Consumption	16.8W
Weight	390g
Dimensions	155(D) x 87(Dia.)mm (Excluding Stand)

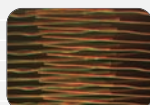
1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Laser	SL-3401	\$79.95	\$71.95	\$63.95

DMX Powered Laser Beam

Unleash a barrage of atmosphere creating lasers at your next party, concert, or stage production. This model features an XLR out plug that allows you to daisy-chain multiple units together for full DMX controlled visceral ambience. Of course a single unit can also be controlled if your requirements aren't so intense. There's also a mic at the front so you can sit the unit near a speaker for auto laser mode. Dip switch at the rear allows control of sound active mode, auto mode, and to switch DMX addresses on or off. Mount to your speaker stand or other frame work with the supplied bracket.

SPECIFICATIONS	SL-3451
Laser colour	Red, Green
Sound control	Auto, DMX 512 (7 channels)
Laser patterns	More than 64 laser patterns
Power supply	240VAC 50Hz
Dimensions	363(L) x 143(W) x 67(H)mm



1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Laser DMX	SL-3451	\$269.00	\$239.00	\$209.00

Red/Green Mini Laser Light Show with RGB LED

A mini laser light show that doesn't skimp on features. It includes a full colour RGB LED that adds vibrancy and substance to each laser pattern by cycling through various colours with each show. With the remote control you can cycle through patterns, modes, switch between red or green lasers, adjust the speed and more. It also has a microphone so when positioned near a speaker in music mode the display will change in sync with the music.

A built in bracket and tripod with flexible legs is included for mounting onto AV gear or for simply standing on a desk. An easy to use laser light show great for restaurants, foyers, or parties.



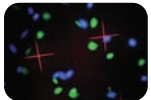
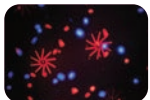
SPECIFICATIONS	SL-3453
Light modes	Static, rotate clockwise/counter-clockwise, blink
Control modes	Sound activated/automatic
Patterns	Star-field, flowers, rotating parallel dots, quasars, alternating dots, star-shapes
Power supply	240VAC, 50Hz
Dimensions	140(L) x 105(W) x 55(H)mm

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Mini Laser	SL-3453	\$169.00	\$151.95	\$134.95

LED & Laser Party Light with Sound Activation

The best of both party-lighting worlds in one unit! Two high powered lasers (one red, one green), as well as 13 high powered LEDs. It produces stunning and mesmerising light shows that will dazzle, and keep the party rocking all night. It will automatically sync with the music, or take full control with the DMX throughput to really get things going!



NEW
2017

SPECIFICATIONS	SL-3410
Lasers	Red: 100mW 650nm Green: 50mW 532nm
LEDs	Red, Green, Blue, Orange, White, Yellow
Dimensions	300(W) x 320(H) x 230(D)mm

1
YEAR
WARRANTY

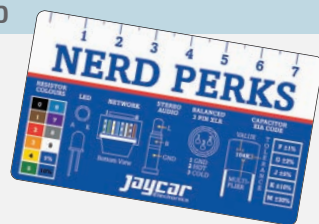
▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Laser + LED	SL-3410	\$249.00	\$219.00	\$199.00

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See front of catalogue for details



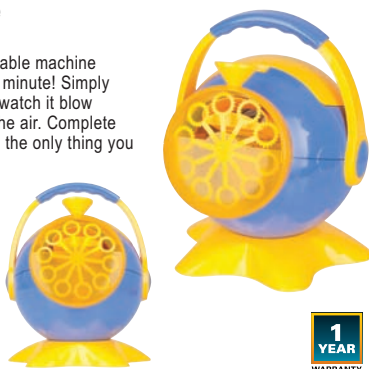
1
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BUBBLE & SNOW MAKERS

Battery Operated Portable Bubble Machine

Children love bubbles and this portable machine creates hundreds of bubbles every minute! Simply switch the bubble machine on and watch it blow plenty of fun shaped bubbles into the air. Complete with a portable carry handle, this is the only thing you need to bring to any party!

- Requires 4 x C-sized batteries (not included)
- Recommended Bubble Liquid - AB-1222 (available separately)



	Cat.	Qty 1+	Qty 4+	Qty 10+
Bubble Machine	AB-1224	\$24.95	\$22.50	\$19.95
946ml	AB-1222	\$6.95	\$6.25	\$5.50

Professional Mains Operated Bubble Machine

This powerful bubble machine will blow you away. At 20 rotations per minute, this party animal creates countless bubbles in the instant and won't stop until you pull the plug. Perfect for birthdays, parties, weddings or any occasions where you want lots of fun that you can see and touch.

- Carry handle with mounting hole for raining bubbles
- Mains powered
- Suitable Bubble Liquid: AB-1222



	Cat.	Qty 1+	Qty 4+	Qty 10+
Bubble Machine	AB-1229	\$59.95	\$53.95	\$47.95
946ml	AB-1222	\$6.95	\$6.25	\$5.50

Snow Machine 600W

While not technically a true "snow" machine, it does produce foamy flakes, that fall back down to the ground just like snowfall. Create a winter themed wonderland, or just add another dimension to your party! The light foamy flakes aren't frozen, so you can use this machine in any moderate temperature to produce the snowy effect. Includes a wireless remote control to control snow output.



	Cat.	Qty 1+	Qty 4+	Qty 10+
Snow Machine	AF-1221	\$199.00	\$179.00	\$159.00
Snow Juice - 5L	AF-1222	\$24.95	\$22.45	\$19.95

SHOW US YOUR BUILD COMPETITION

Paul, who shops at our Jaycar Elizabeth store built:



This is my "Mist Making Console", it powers a 12 volt pump and gives full control and configurability using 3 different modes: Timer / Motion Detection / Full Power, this has been an ongoing project of mine using Jaycar electronics and the version you see in the photo has taken me a year of refinement.

SPECIAL FX

400W Mini Fog Machine

Fog machines provide an extra element for any party. Your party lighting instantly transforms from average lights to laser beams of fun. Watch the light beams dazzle through the fog while the music's playing. It features a remote control button to control fog output as needed.

- Fog juice sold separately (AF-1212)



	Cat.	Qty 1+	Qty 4+	Qty 10+
Mini Fog Machine	AF-1220	\$79.95	\$71.95	\$63.95
Fog Juice 1 Litre	AF-1212	\$17.95	\$15.95	\$14.35

Rave Fog Machine

This tough fog machine will add the extra dimension to any mobile DJ setup, home party or disco lighting - with laser light shows, mirror balls and other party lighting coming out in full effect. The unit produces clouds of white fog on demand with the use of an illuminated 3m wired remote control. Features an adjustable mounting bracket, tough metal construction and fluid gauge.

- 240VAC operation
- 70 cubic metres/min fog output
- 800ml fluid capacity
- 330(L) x 160(W) x 140(H)mm
- Fog juice sold separately (AF-1212)



	Cat.	Qty 1+	Qty 4+	Qty 10+
Fog Machine	AF-1214	\$149.00	\$133.95	\$118.95
Fog Juice 1 Litre	AF-1212	\$17.95	\$15.95	\$14.35

DMX Fog Machine

The ambience and mystique associated with fog and mist is excellent at nightclubs, parties, and spooky film re-enactments. This unit gives you a range of control options which include the ability to set the machine to burst fog for specific durations at certain intervals as well as to manually trigger with the supplied remote control. But the real standout feature is the support for DMX. Hook this up to your DMX512 controller and fog will waft out with the beats allowing total customisation over your stage or party effects.

- Tank capacity: 1.2L
- Remote included
- Dimensions: 335(L) x 150(W) x 186(H)mm

Fog juice to suit - AF-1212 (available separately)



	Cat.	Qty 1+	Qty 4+	Qty 10+
Fog Machine	AF-1213	\$189.00	\$169.95	\$150.95
Fog Juice 1 Litre	AF-1212	\$17.95	\$15.95	\$14.35

Strawberry Essence Scent for Fog Machines

Strawberry essence additive that provides a more desirable smell to your fog machine. Just add a few drops to the fog juice container on your fog machine, and hey presto, strawberry scented fog!



	Cat.	Qty 1+	Qty 4+	Qty 10+
20ml	AF-1211	\$19.95	\$17.95	\$15.95

MONTHLY SPECIALS

Look out for our monthly promotions in store now!

Hardcore Electronics.



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RCA PLUGS & SOCKETS

RCA derives from the name Radio Corporation of America. It is sometimes called a Phono connector or Cinch connector. The connector is commonly used for audio and video signals (composite or component).

PLUGS - PLASTIC

Economy style.



▲ Colour	Cat	Qty 1+	Qty 10+	Qty 50+
Blue	PP-0238	\$0.68	\$0.60	\$0.52
Green	PP-0239	\$0.68	\$0.60	\$0.52
Red	PP-0240	\$0.68	\$0.60	\$0.52
Black	PP-0242	\$0.68	\$0.60	\$0.52
Yellow	PP-0243	\$0.68	\$0.60	\$0.52
White	PP-0244	\$0.68	\$0.60	\$0.52

METAL BODY RCA PLUGS WITH CABLE PROTECTION SPRING



▲ NICKEL		Qty 1+	Qty 10+	Qty 50+
	PP-0245	\$1.95	\$1.75	\$1.55
GOLD PLATED 7mm Cable				
Red	PP-0236	\$3.25	\$2.90	\$2.60
Black	PP-0237	\$3.25	\$2.90	\$2.60

RCA Plug & Socket with Spring Terminals

RCA connector to spring terminal block. No tools required.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug	PA-3717	\$4.95	\$4.45	\$4.00
Socket	PA-3718	\$4.95	\$4.45	\$4.00

PREMIUM GOLD PLATED METAL BODY RCA PLUGS



▲ Colour	Cat	Qty 1+	Qty 10+	Qty 50+
Red	PP-0230	\$3.95	\$3.45	\$3.15
Black	PP-0232	\$3.95	\$3.45	\$3.15
Yellow	PP-0231	\$3.95	\$3.45	\$3.15
White	PP-0233	\$3.95	\$3.45	\$3.15
Blue	PP-0234	\$3.95	\$3.45	\$3.15
Green	PP-0235	\$3.95	\$3.45	\$3.15

CRIMPLESS RG6 PLUGS

Crimpleless and solderless. All metal construction, requiring no tools to fit.



▲ Colour	Cat	Qty 1+	Qty 10+	Qty 50+
Red	PP-0205	\$3.50	\$3.15	\$2.75

RCA Line Sockets

RCA (PHONO) LINE SOCKETS Plastic Economy style.



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PS-0250	\$0.60	\$0.52	\$0.47
Black	PS-0252	\$0.60	\$0.52	\$0.47

METAL BODY RCA SOCKETS

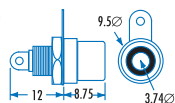
With cable protection spring



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Nickel Plated	PS-0254	\$1.95	\$1.75	\$1.55
Gold Plated - Red	PS-0272	\$2.45	\$2.15	\$1.95
Gold Plated - Black	PS-0274	\$2.45	\$2.15	\$1.95

RCA PLUGS & SOCKETS (CONTINUED)

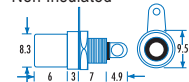
RCA Chassis Sockets

NICKEL PLATED
Non Insulated

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Nickel Plated - Black	PS-0256	\$0.95	\$0.85	\$0.75
Nickel Plated - Red	PS-0257	\$0.95	\$0.85	\$0.75
Nickel Plated - Yellow	PS-0255	\$0.95	\$0.85	\$0.75

RCA CHASSIS SOCKETS - GOLD

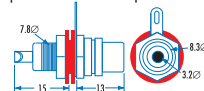
Non Insulated



▲ Gold Plated	Cat.	Qty 1+	Qty 10+	Qty 50+
Black	PS-0258	\$1.95	\$1.75	\$1.55
Red	PS-0259	\$1.95	\$1.75	\$1.55
Yellow	PS-0260	\$1.95	\$1.75	\$1.55
White	PS-0261	\$1.95	\$1.75	\$1.55
Blue	PS-0270	\$1.95	\$1.75	\$1.55
Green	PS-0271	\$1.95	\$1.75	\$1.55

RCA CHASSIS SOCKETS - GOLD

Requires 9.5mm dia panel hole

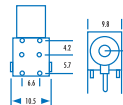


▲ Gold Plated Ins	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PS-0276	\$3.95	\$3.45	\$3.15
Black	PS-0277	\$3.95	\$3.45	\$3.15
Yellow	PS-0275	\$3.95	\$3.45	\$3.15
White	PS-0278	\$3.95	\$3.45	\$3.15

In addition to the products above, we also have a large range of interconnection leads with RCA plugs or sockets on one end and RCAs - or many other types on the other.

RCA Right Angle Socket

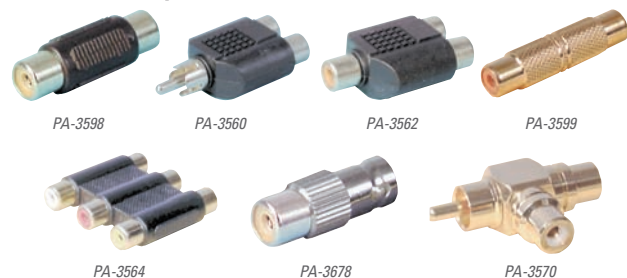
- Black insert only
- Nickel plated



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Right Angle	PS-0279	\$1.45	\$1.30	\$1.15

RCA ADAPTORS

RCA Socket Adaptors



▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
RCA Female to RCA Female	PA-3598	\$2.95	\$2.60	\$2.30
RCA Plug to 2 x RCA Socket	PA-3560	\$3.95	\$3.45	\$3.15
1 x RCA Socket to 2 x RCA Socket	PA-3562	\$3.95	\$3.45	\$3.15
RCA Socket to RCA Socket	PA-3599	\$5.95	\$5.25	\$4.75
3 x RCA Socket to 3 x RCA Socket	PA-3564	\$7.95	\$6.95	\$6.25
RCA Socket to BNC Socket	PA-3678	\$3.95	\$3.45	\$3.15
Double Adaptor - Gold Plated	PA-3570	\$5.95	\$5.25	\$4.75

Panel Mount - RCA Socket to Socket

Gold plated, insulated panel mounted RCA socket to RCA socket adaptors.



Allows you to plug straight into the back of the socket

▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Yellow	PS-0441	\$3.95	\$3.45	\$3.15
Red	PS-0442	\$3.95	\$3.45	\$3.15
Black	PS-0443	\$3.60	\$3.15	\$2.85
Green	PS-0444	\$3.60	\$3.15	\$2.85
Blue	PS-0445	\$3.60	\$3.15	\$2.85
White	PS-0446	\$3.95	\$3.45	\$3.15

RCA Plug to Adaptors



▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
RCA Plug to 3.5mm Mono Socket	PA-3508	\$1.95	\$1.75	\$1.55
RCA Male to RCA Male Socket	PA-3597	\$2.95	\$2.60	\$2.30
RCA Plug to 6.5mm Mono Socket	PA-3510	\$1.95	\$1.75	\$1.55
RCA Plug to PAL TV Socket	PA-3676	\$3.95	\$3.45	\$3.15
RCA Male to F-81 Socket	PA-3677	\$3.45	\$3.05	\$2.75
RCA Plug to BNC Female Socket	PA-3655	\$3.95	\$3.45	\$3.15
RCA Adaptor	PA-3566	\$4.95	\$4.45	\$3.90

For a huge range of screened audio cable to suit these products see page 158.

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GOLD PLATED CONNECTORS

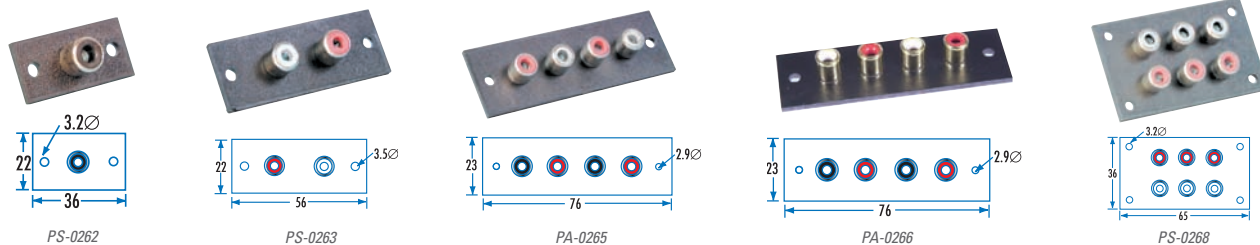
For Use With Wallplates



▲ Type	Cat.	Qty 1+	Qty 2+	Qty 5+
Binding Post with Banana - Red	PS-0490	\$3.95	\$3.45	\$3.15
Binding Post with Banana - Black	PS-0491	\$3.95	\$3.45	\$3.15
Banana Socket Binding Post - Red	PS-0492	\$2.95	\$2.60	\$2.30
Banana Socket Binding Post - Black	PS-0493	\$2.95	\$2.60	\$2.30
RCA Socket to F-61 Socket	PS-0494	\$2.45	\$2.15	\$1.95
RCA Socket - Solder - Blue	PS-0489	\$2.45	\$2.15	\$1.95

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
RCA Socket - Solder - Red	PS-0495	\$2.45	\$2.15	\$1.95
RCA Socket - Solder - Black	PS-0496	\$2.45	\$2.15	\$1.95
RCA Socket - Solder - Yellow	PS-0497	\$2.45	\$2.15	\$1.95
RCA Socket - Solder - Green	PS-0499	\$2.45	\$2.15	\$1.95
F-61 Socket to F-61 Socket	PS-0498	\$2.45	\$2.15	\$1.95

RCA PHENOLIC SOCKETS



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
1 Way	PS-0262	\$1.10	\$0.95	\$0.85
2 Way	PS-0263	\$1.65	\$1.45	\$1.30
4 Way	PA-0265	\$2.95	\$2.65	\$2.35
4 Way Gold Plated	PA-0266	\$3.95	\$3.45	\$3.15
6 Way	PS-0268	\$3.95	\$3.45	\$3.15

2.5MM JACK PLUGS, SOCKETS & ADAPTORS

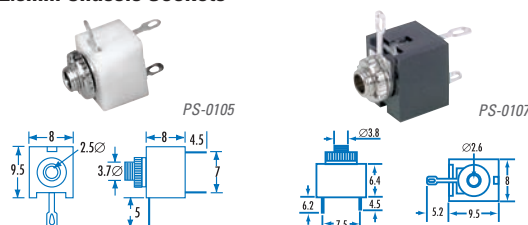
Also known as a phone plug (US) or TRS (tip, ring, sleeve). Available as mono or stereo versions in several common diameters:
2.5mm - the smallest size used where space is a premium. Was once used as a mono earphone plug but now has multichannel functions.

2.5mm Subminiature Plugs



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PP-0100	\$0.75	\$0.65	\$0.60
Stereo	PP-0103	\$1.25	\$1.10	\$0.97
Stereo Right Angled	PP-0104	\$3.95	\$3.45	\$3.15
4 Contact	PP-0101	\$2.95	\$2.60	\$2.30

2.5mm Chassis Sockets



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PS-0105	\$0.95	\$0.85	\$0.75
Stereo	PS-0107	\$1.95	\$1.75	\$1.55

2.5mm Surface Mount Sockets

• Packet of 10



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
SMD Stereo Switched	PS-0110	\$19.95	\$17.55	\$11.95

2.5mm Stereo Connector & Line Plug - IP67



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.5mm Stereo Connector	PS-0789	\$14.95	\$13.35	\$11.70
Stereo Line Plug with 1m Cable	PP-0787	\$12.95	\$11.35	\$10.35

2.5mm Line Socket

▲	Cat.	Qty 1+	Qty 10+	Qty 50+
Stereo	PS-0109	\$1.95	\$1.75	\$1.55

2.5mm Adaptors

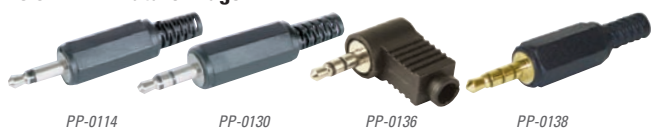


▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.5mm Stereo Plug to 3.5mm Stereo Right Angle Socket	PA-3502	\$3.95	\$3.45	\$3.15
2.5mm Mono Plug to 6.5mm Mono Socket	PA-3504	\$1.95	\$1.75	\$1.55
2.5mm Stereo Plug to 3.5mm Stereo Socket	PA-3532	\$3.95	\$3.45	\$3.15

3.5MM JACK PLUGS, SOCKETS & ADAPTORS

Also known as a phone plug (US) or TRS (tip, ring, sleeve). Available as mono or stereo versions in several common diameters:
3.5mm - the mini plug, which in the stereo version is widely found on headphones used with portable audio such as MP3 players etc. It is also a standard connector used on PC sound cards. The mono version is occasionally used as a DC power connector.

3.5mm Miniature Plugs



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PP-0114	\$0.85	\$0.75	\$0.65
Stereo	PP-0130	\$1.25	\$1.10	\$0.97
Stereo Right Angled	PP-0136	\$1.85	\$1.65	\$1.45
4 Contact	PP-0138	\$4.95	\$4.45	\$3.90

Metal Plugs With Cable Protection Spring



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PP-0116	\$1.45	\$1.30	\$1.15
Stereo	PP-0135	\$1.85	\$1.65	\$1.45
Stereo Gold Plated	PP-0131	\$2.45	\$2.15	\$1.95

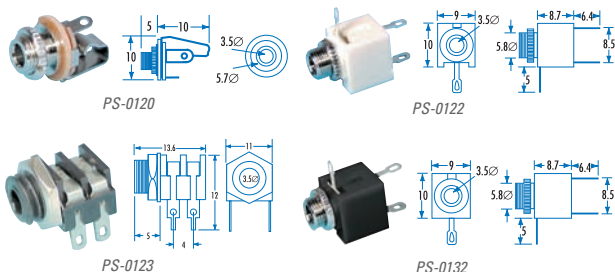
Slimline - Gold Plugs



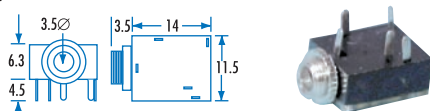
▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Stereo	PP-0132	\$3.95	\$3.45	\$3.15
4 Pole	PP-0134	\$4.95	\$4.45	\$3.90

3.5MM JACK PLUGS, SOCKETS & ADAPTORS (CONTINUED)**3.5mm Line Sockets**

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PS-0126	\$1.45	\$1.30	\$1.15
Stereo	PS-0134	\$1.95	\$1.75	\$1.55
4 Contact	PS-0139	\$4.95	\$4.45	\$3.90

3.5mm Chassis Sockets

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono Open	PS-0120	\$1.45	\$1.30	\$1.15
Mono Enclosed	PS-0122	\$0.95	\$0.85	\$0.75
Mono Insulated	PS-0123	\$2.45	\$2.15	\$1.95
Stereo	PS-0132	\$1.35	\$1.20	\$1.05

3.5mm PCB Socket

▲	Cat.	Qty 1+	Qty 10+	Qty 50+
PCB Stereo Switched	PS-0133	\$1.65	\$1.45	\$1.30

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.
We're here to help.

3.5mm Adaptors - Mono

▲ Mono 3.5mm	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to RCA Socket	PA-3500	\$1.95	\$1.75	\$1.55
Plug to 6.5mm Mono Socket	PA-3506	\$1.95	\$1.75	\$1.55
Plug to 3.5mm Stereo Socket	PA-3584	\$1.95	\$1.75	\$1.55
Plug to 6.5mm Stereo Socket	PA-3594	\$1.95	\$1.75	\$1.55
Plug to PAL (75 ohm) Socket	PA-3657	\$3.95	\$3.45	\$3.15

3.5mm Adaptors - Stereo

▲ Stereo 3.5mm	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to 6.5mm Stereo Socket	PA-3586	\$2.95	\$2.60	\$2.30
Plug to 3.5mm Stereo R/A Socket	PA-3503	\$3.95	\$3.45	\$3.15
Plug to 2.5mm Stereo Socket	PA-3536	\$3.95	\$3.45	\$3.15
Plug to 2 x 3.5mm Stereo Sockets	PA-3582	\$3.95	\$3.45	\$3.15
Plug to 2 x RCA Sockets	PA-3580	\$3.95	\$3.45	\$3.15
Socket to 2 x 3.5mm Mono Plug	PA-3581	\$4.95	\$4.45	\$4.00

3.5MM STEREO SOCKET TO 3.5MM STEREO SOCKET

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-3583	\$1.95	\$1.75	\$1.55

3.5MM STEREO SOCKET TO 2 X RCA SOCKETS ADAPTOR

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-3585	\$2.55	\$2.25	\$1.95

6.5MM JACK PLUGS, SOCKETS & ADAPTORS

Also known as a phone plug (US) or TRS (tip, ring, sleeve).
Available as mono or stereo versions in several common diameters:

6.5mm - the largest size; the mono version is used on guitar & microphone leads, while the stereo version is often used on Hi-Fi headphones. The 6.5mm (or 1/4" phone plug) was originally used for manual telephone switchboards particularly the 'Sylvester' type.

6.5mm 1/4" Plugs**PLUGS - LINE - MONO**

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono - Plastic	PP-0150	\$1.00	\$0.90	\$0.80
Mono - Metal	PP-0154	\$1.85	\$1.65	\$1.45
Mono - Gold	PP-0156	\$3.95	\$3.45	\$3.15
Mono - Red	PP-0151	\$4.95	\$4.45	\$3.90
Mono - Black	PP-0152	\$4.95	\$4.45	\$3.90

6.5mm 1/4" Plugs**PLUGS - LINE - STEREO**

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Stereo - Plastic	PP-0170	\$1.70	\$1.50	\$1.35
Stereo - Metal	PP-0174	\$2.45	\$2.15	\$1.95
Stereo - Gold	PP-0175	\$5.25	\$4.60	\$4.15
Stereo - Red	PP-0177	\$4.95	\$4.45	\$3.90
Stereo - Black	PP-0178	\$4.95	\$4.45	\$3.90

6.5MM JACK PLUGS, SOCKETS & ADAPTORS (CONTINUED)

6.5mm PRO METAL PLUGS

Made especially for the rigours of the road or anywhere where a heavy duty, tough 6.5mm plug is called upon. The mono plugs feature blue identification rings, whereas the stereo plugs have black rings. This is particularly handy if you have a combination of stereo and mono plugs on the one mixing desk or patch bay.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono Metal - Pro	PP-0157	\$5.45	\$4.90	\$4.30
Stereo Metal - Pro	PP-0179	\$6.45	\$5.75	\$4.95

6.5mm 1/4" Line Sockets



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono	PS-0166	\$1.65	\$1.45	\$1.30
Stereo	PS-0194	\$1.95	\$1.75	\$1.55

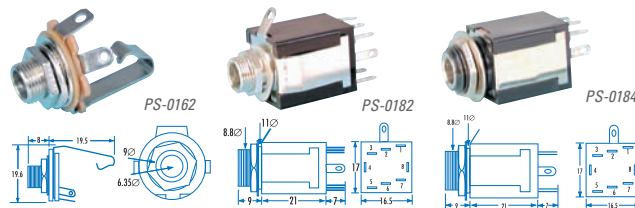
6.5mm 1/4" Flush Panel Socket

Ever tried to mount a 6.5mm socket in a wooden box? It was impossible! Now it's easy with our unique plastic mounting aid.



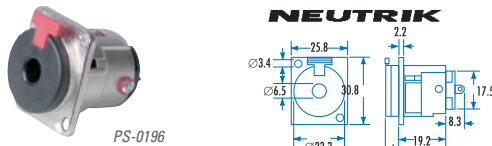
Type	Cat.	Qty 1+	Qty 5+	Qty 10+
Socket Mounting Cup	HS-8025	\$2.50	\$2.20	\$1.95

6.5mm 1/4" Chassis Sockets



PROFESSIONAL LOCKING CHASSIS JACK

Metal shell, mates with all mono and stereo 6.5mm (1/4") phono plugs. Plug locking feature keeps plug in the socket.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Mono Open Unswitched	PS-0162	\$1.95	\$1.75	\$1.55
Mono & Stereo	PS-0196	\$19.95	\$17.95	\$15.95
Stereo Switched DPST	PS-0182	\$2.95	\$2.60	\$2.30
Stereo Insulated Switched	PS-0184	\$3.45	\$3.05	\$2.75

RIGHT ANGLE PLUGS

Super tough metal construction plug for harsh environments & musos who want the best.

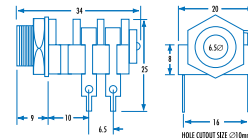
- Use with 6mm O.D. cable
- Strain relief provided.



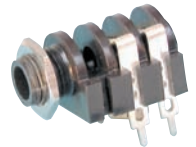
Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Pro Right Angle	PP-0159	\$4.95	\$4.45	\$3.90
Right Angle	PP-0158	\$1.95	\$1.75	\$1.55
Stereo Right Angle	PP-0176	\$2.50	\$2.21	\$1.95

6.5mm PCB / Chassis Sockets

MONO INSULATED

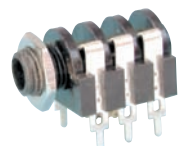
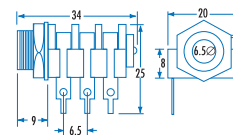


Closed when plug is NOT inserted



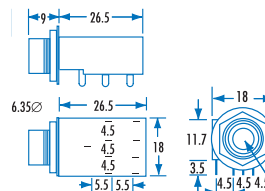
INSULATED DPST SWITCHED - STEREO

Works OK in mono



INSULATED UNSWITCHED - STEREO

Works OK in mono



STEREO

- Sub-panel fixing



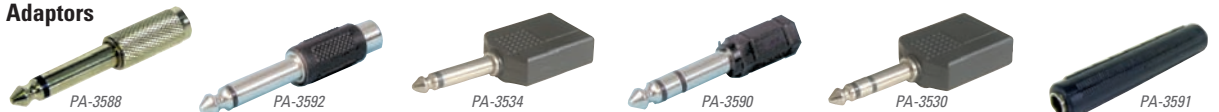
HIGH QUALITY - STEREO

- Switching DPST.
- Black plastic front insert
- Glossy chrome-finish nut.
- Stereo, but can be used for mono.
- Minimum Life: 10,000 insert/ withdraw cycles
- Contact Rating: 2.5A at 48VDC



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Switched	PS-0160	\$2.45	\$2.15	\$1.95
Stereo Insulated DPST Switched	PS-0190	\$2.95	\$2.60	\$2.30
Stereo Insulated Unswitched	PS-0192	\$2.75	\$2.45	\$2.15
Stereo	PS-0180	\$2.95	\$2.60	\$2.30
Stereo	PS-0195	\$5.95	\$5.25	\$4.75

6.5mm Adaptors



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Mono Socket to 6.5mm Mono Plug	PA-3588	\$1.95	\$1.75	\$1.55
Mono Plug to RCA Socket	PA-3592	\$1.95	\$1.75	\$1.55
Mono Plug to 2 x 6.5mm Mono Sockets	PA-3534	\$3.95	\$3.45	\$3.15
Stereo Plug 3.5mm Stereo Socket	PA-3590	\$1.95	\$1.75	\$1.55
Stereo Plug to 2 x 6.5mm Stereo Socket	PA-3530	\$3.95	\$3.45	\$3.15
Stereo Socket to 6.5mm Stereo Socket	PA-3591	\$3.95	\$3.45	\$3.15

ADDICTED TO SOCIAL? WE'RE HERE TO CHAT - WHATEVER YOUR CHANNEL!



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BANANA PLUGS

Banana plugs & sockets originally started life on test equipment.

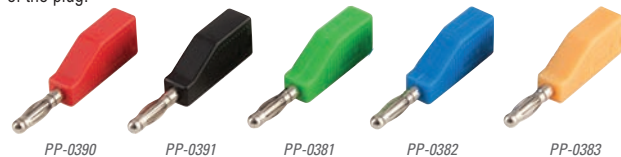
Their versatility quickly saw them as output connectors for power supplies. When they were integrated with binding posts they quickly saw use as speaker connectors.

Now they are everywhere.

Banana Plugs

PLUGS - PIGGY BACK

With this quality piggy back style, another banana plug can be inserted into the back of the plug.



PP-0390

PP-0391

PP-0381

PP-0382

PP-0383

▲ Piggy Back	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP-0390	\$1.95	\$1.75	\$1.55
Black	PP-0391	\$1.95	\$1.75	\$1.55
Green	PP-0381	\$1.95	\$1.75	\$1.55
Blue	PP-0382	\$1.95	\$1.75	\$1.55
Yellow	PP-0383	\$1.95	\$1.75	\$1.55

Piggy back insulating shroud type. Works with our PS-0420-24 series.



PP-0385

PP-0386

PP-0387

PP-0388

PP-0389

▲ Piggy Back	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP-0385	\$2.45	\$2.15	\$1.95
Black	PP-0386	\$2.45	\$2.15	\$1.95
Green	PP-0387	\$2.45	\$2.15	\$1.95
Blue	PP-0388	\$2.45	\$2.15	\$1.95
Yellow	PP-0389	\$2.45	\$2.15	\$1.95

BANANA SOCKETS

4MM BANANA SOCKET TO ALLIGATOR CLIP



PA-3668

PA-3669

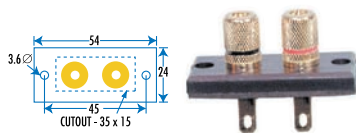
▲	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PA-3668	\$2.75	\$2.45	\$2.15
Black	PA-3669	\$2.75	\$2.45	\$2.15

BANANA / SCREW TYPE

2 Way Gold Terminals

Top quality speaker terminal with gold banana sockets which also have a huge hole (6mm) to accept Monster type speaker cable.

- Supplied with gasket.
- Dimensions: 54(W) x 24(H)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	PT-3008	\$9.95	\$8.75	\$7.75

Banana Socket / Binding Post Wallplates

- Standard power point size
- Gold plated



PT-0470

PT-0472

PT-0474

▲ Socket / Binding Post	Cat.	Qty 1+	Qty 2+	Qty 5+
2 Way	PT-0470	\$11.95	\$10.70	\$9.50
4 Way	PT-0472	\$17.95	\$15.95	\$14.35
8 Way	PT-0474	\$24.95	\$22.35	\$19.70

PLUGS



PP-0400/02

PP-0394/95

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red - 4mm	PP-0400	\$0.95	\$0.85	\$0.75
Black - 4mm	PP-0402	\$0.95	\$0.85	\$0.75
Red - Right Angle	PP-0394	\$2.25	\$1.95	\$1.80
Black - Right Angle	PP-0395	\$2.25	\$1.95	\$1.80

PLUGS - METAL GOLD PLATED

Designed for monster type speaker cable.

- Side entry hole, with finger screw locking action.
- Hole will accept another banana plug or thick cable.



PP-0426/27

PLUGS - METAL GOLD PLATED & LOCKING

These lock into the socket, and cannot be easily removed.

- Gold plated



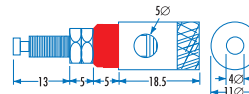
PP-0416

PP-0417

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP-0426	\$4.95	\$4.45	\$3.90
Black	PP-0427	\$4.95	\$4.45	\$3.90
Red - Locking	PP-0416	\$7.95	\$6.95	\$6.25
Black - Locking	PP-0417	\$7.95	\$6.95	\$6.25

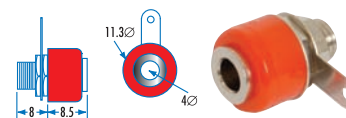
Speaker Box Mount

These have a hole entry on the side which will accept monster type speaker cable or a banana plug. Thread is 19mm long.



▲ Speaker Box Mount	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP-0434	\$4.95	\$4.45	\$3.90
Black	PP-0435	\$4.95	\$4.45	\$3.90

Banana Chassis Sockets



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Red - 4mm	PS-0406	\$0.65	\$0.57	\$0.50
Black - 4mm	PS-0408	\$0.65	\$0.57	\$0.50

FULLY INSULATED

Works with our PP-0385-89 series.



▲ Fully Insulated	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PS-0420	\$2.25	\$1.95	\$1.80
Black	PS-0421	\$2.25	\$1.95	\$1.80
Green	PS-0422	\$2.25	\$1.95	\$1.80
Blue	PS-0423	\$2.25	\$1.95	\$1.80
Yellow	PS-0424	\$2.25	\$1.95	\$1.80

Includes a plastic cover to reduce the risk of shorting. Grub screws for internal wire connection.

Hole size is 12mm.

Cable hole 5mm dia.

Available in red or black.

- Gold plated



PP-0436



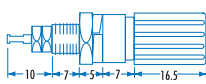
PP-0437

▲ Fully Insulated Gold	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PP-0436	\$6.95	\$6.25	\$5.55
Black	PP-0437	\$6.95	\$6.25	\$5.55

BANANA BINDING POSTS

Binding Posts

STANDARD
Incorporates a banana socket.



PREMIUM
Super quality with metal thread.



DUAL

- Insulated cable entry.
- Post spacing 19mm.



50 AMP JUMBO

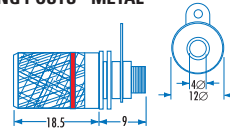
- 12mm hole size
- Overall dimensions: 58(D) x 20(Dia.)mm



NEW
2017

BANANA SOCKETS / BINDING POSTS - METAL

Will accept a banana plug in the end and monster type cable or banana plug in the side. Designed for mounting on the back of amplifiers as mounting thread is only 6mm long



▲ Amplifier Mount	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	PT-0430	\$4.95	\$4.45	\$3.90
Black	PT-0431	\$4.95	\$4.45	\$3.90

SHOW US YOUR BUILD COMPETITION

John, who shops at our Jaycar Penrith store built:



This is a Subwoofer processor I built entirely from Jaycar parts. It handles bass from my home theatre amp and my stereo setup. It uses a variety of features to optimize the performance of my subs.

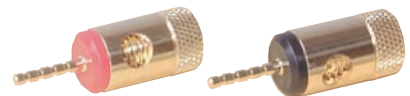
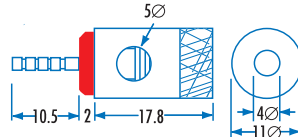
▲ Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Blue	Standard	PT-0450	\$1.65	\$1.45	\$1.30
Yellow	Standard	PT-0451	\$1.65	\$1.45	\$1.30
White	Standard	PT-0452	\$1.65	\$1.45	\$1.30
Red	Standard	PT-0453	\$1.65	\$1.45	\$1.30
Black	Standard	PT-0454	\$1.65	\$1.45	\$1.30
Green	Standard	PT-0455	\$1.65	\$1.45	\$1.30
Red	Premium	PT-0460	\$2.95	\$2.65	\$2.35
Black	Premium	PT-0461	\$2.95	\$2.65	\$2.35
Green	Premium	PT-0462	\$1.95	\$1.75	\$1.55
Red/Black	Dual	PT-0457	\$6.95	\$6.25	\$5.55
Red NEW	50A Jumbo	PT-0465	\$6.95	\$6.25	\$5.55
Black NEW	50A Jumbo	PT-0466	\$6.95	\$6.25	\$5.55

SPEAKER PUSH/SCREW TERMINALS

JUMBO SPEAKER CABLE TERMINALS

Can't fit your large speaker cable into your speaker box spring terminals? Problem solved!! Simply terminate the thick cable into these gold connectors and the 1.5mm dia. pin easily fits into speaker rear terminals.

- Cable entry is 6mm.
- Gold plated



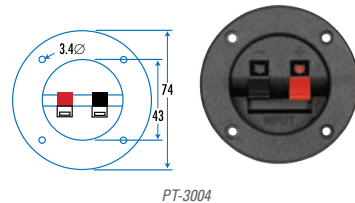
Type	Cat.	Qty 1+	Qty 5+	Qty 10+
Red	PT-3020	\$2.65	\$2.30	\$2.07
Black	PT-3021	\$2.65	\$2.30	\$2.07

LARGE ROUND SPEAKER TERMINAL

Up to 16 AWG cable.

- Cutout 50mm.

PT-3004



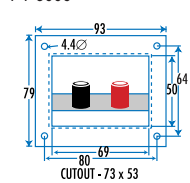
PT-3004

SPEAKER BOX TERMINAL

Ideal if you are running large size speaker cable to your speakers.

- Dimensions 92(W)x79(H)mm

PT-3006



CUTOUT - 73 x 53

PT-3006

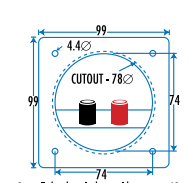


2 WAY GOLD TERMINALS ON A PLATE

Top quality speaker terminal.

- Plate size 99 x 99mm.
- Hole cutout is round - diameter 78mm.

PT-3012



Overall depth including solder tabs = 43mm



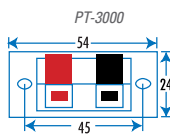
PT-3012

2 WAY - UP TO 16AWG

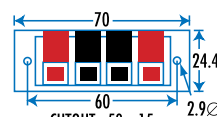
Up to 16AWG cable.

- Mounting holes: 45mm apart
- Dimensions: 54(L) x 24(W)mm

PT-3000



4 WAY - UP TO 16AWG



CUTOUT - 50 x 15



PT-3002

▲ Type	Cat.	Qty 1+	Qty 5+	Qty 10+
2 Way Round	PT-3004	\$2.95	\$2.60	\$2.30
Speaker Box	PT-3006	\$6.95	\$6.25	\$5.55
2 Way Gold / Plate	PT-3012	\$11.95	\$10.70	\$9.50
2 Way	PT-3000	\$1.75	\$1.55	\$1.40
4 Way	PT-3002	\$2.95	\$2.60	\$2.30

AUDIO - ECONOMY RANGE PLUGS, SOCKETS & LEADS

SOANAR



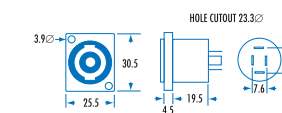
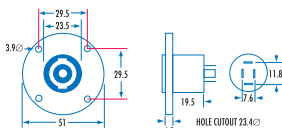
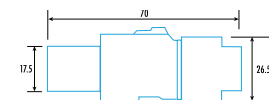
PP-1080



PS-1084



PS-1082



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Inline Speaker 4 Pole Connector	PP-1080	\$12.95	\$11.35	\$10.35
Round Speaker Bin Socket	PS-1084	\$9.95	\$8.75	\$7.75
Square Speaker Chassis Socket	PS-1082	\$9.95	\$8.75	\$7.75

Speakon Lead Extender

Connects Speakon leads together to extend cable runs as far as you need to.

- ABS construction.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-3689	\$12.95	\$11.35	\$10.35

Speakon Audio Leads

Speakon connectors are the standard for speaker connections in PA and sound reinforcement applications, and if you're building or installing a system they're the only way to go. You could buy the cable and connectors and put them together, or buy these excellent ready-made cable assemblies.



▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
5 metre	WA-7100	\$29.95	\$26.95	\$23.95
10 metre	WA-7102	\$44.95	\$40.45	\$35.90

"SPEAKON" LOUDSPEAKER PLUGS & SOCKETS

NEUTRIK

Heavy duty, fail-safe speaker connectors

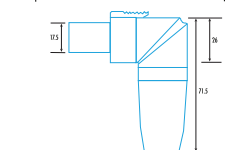
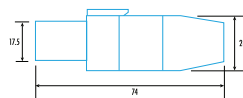
- 4 pole with Locking ring
- 30 amp continuous current
- Solderless termination
- The standard in high power PA speaker connections
- PS-1094 & PS-1092 hole cutout 24mm



PP-1090



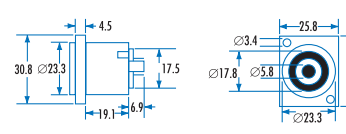
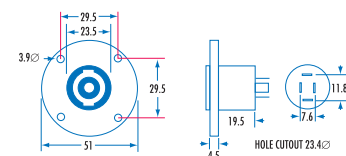
PP-1091



PS-1094



PS-1092



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Inline Speaker Connector 4 Pole	PP-1090	\$14.95	\$13.35	\$11.70
Inline Speaker Plug	PP-1091	\$19.95	\$17.95	\$15.95
Round Speaker Bin Chassis Mount Plastic	PS-1094	\$11.95	\$10.70	\$9.50
Square Chassis Mount Plastic	PS-1092	\$11.95	\$10.70	\$9.50

XLR - AMPHENOL PLUGS & SOCKETS

Typically used for balanced connections such as professional microphones; these connectors are 3 pin & lock on to the socket. The confusion over whether pin 2 or 3 is hot has only relatively recently been resolved. The Standard has been defined by the Audio Engineering Society which we have outlined on the bottom of the next page.

Amphenol® have taken over the genuine Cannon brand.

LINE - 3 PIN

- Solder type
- Diecast metal shell

Amphenol®



PP-1052



PS-1062



LINE - 4 PIN

Cannon/Amphenol Silver

- Diecast metal shell
- Nickel plated

Amphenol®



PP-1040



PS-1042

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP-1052	\$7.95	\$7.15	\$6.35
3 Pin - Female	PS-1062	\$8.95	\$8.05	\$7.15
4 Pin - Male	PP-1040	\$11.95	\$10.70	\$9.50
4 Pin - Female	PS-1042	\$15.95	\$14.35	\$12.70

OPEN A STORE ACCOUNT WITH US

Jaycar accepts account applications from all established companies who can exhibit good trade references.
For application details see our Store Managers.

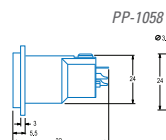
CHASSIS MOUNT D-SERIES XLR SOCKETS

High quality Amphenol brand XLR 3 pole chassis mount sockets. Can be front or rear mounted in P or D series panels.

- 24mm hole cut-out
- D series flange
- Stamped phosphor
- Bronze contacts
- Nickel finish
- Max Wire Gauge: 14AWG
- Flammability Rating: UL94-V0
- Current Carrying Capacity: 15A
- RoHS Compliant.

MALE

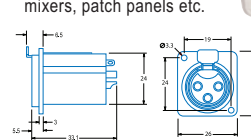
- Ideal for patch panels, studio etc



PP-1058

FEMALE

- Ideal for balanced microphone inputs on mixers, patch panels etc.



PS-1054

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Male	PP-1058	\$6.95	\$6.25	\$5.50
Female	PS-1054	\$8.95	\$8.05	\$7.15

XLR WIRING

The Standard is defined by the Audio Engineering Society in AES14-1992(r1998)

- Pin 1: Shield/Ground
- Pin 2: Hot/In Phase / +
- Pin 3: Cold / Out of Phase / -



MALE



FEMALE

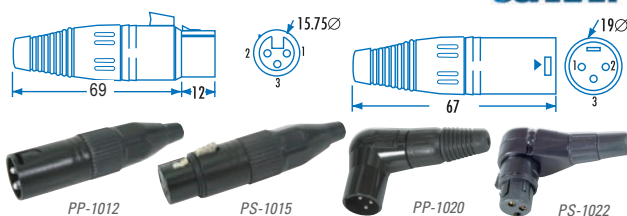
As seen the from front of connectors

To create an unbalanced connection, pin 1 & pin 3 are connected to ground & pin 2 carries the signal. Note that there is a lot of equipment (particularly in the US) that has pin 2 & pin 3 designations reversed (i.e. 3 hot, 2 cold).

Manufacturers are adopting the Standard on all new equipment.

XLR/CANNON PLUGS, SOCKETS & ADAPTORS

3 Pin Line



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin Black - Male	PP-1012	\$4.50	\$3.95	\$3.60
3 Pin Black - Female	PS-1015	\$4.95	\$4.45	\$3.90
3 Pin R/A Black - Male	PP-1020	\$9.95	\$8.75	\$7.75
3 Pin R/A Black - Female	PS-1022	\$9.95	\$8.75	\$7.75

Waterproof IP67 XLR Line Connectors

A matching IP67 waterproof plug and socket suitable for harsh environments. Great for use with PA gear and cabling that are used in outdoor conditions.



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin Black - Line Plug IP67	PP-1013	\$9.95	\$8.75	\$7.75
3 Pin Black - Line Socket IP67	PS-1017	\$9.95	\$8.75	\$7.75

Combo XLR / 6.35mm Stereo Socket Switched

Combined 3 pole XLR & 6.35mm stereo jack for balanced microphone or line. It will accept 6.35mm mono, 6.35mm stereo or 3-pin male XLR. Suits D-series panel cut-outs.

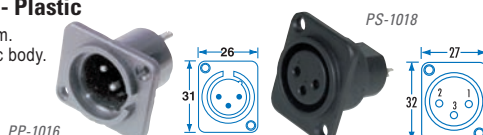
- Non-locking - Panel or PCB mounting
- Switched - Independent inputs
- Gold plated contacts



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-1069	\$9.95	\$8.75	\$7.75

3 Pin Chassis - Plastic

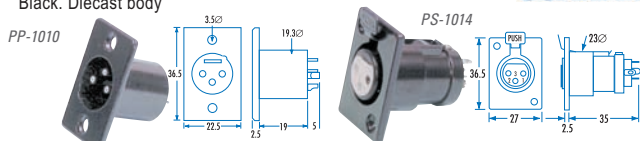
- Hole cutout 22mm.
- Black ABS plastic body.



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic - Male	PP-1016	\$3.95	\$3.45	\$3.15
Plastic - Female	PS-1018	\$3.95	\$3.45	\$3.15

3 Pin Chassis - Metal

Black. Diecast body



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Metal - Male - Hole cutout 20mm	PP-1010	\$4.50	\$3.95	\$3.60
Metal - Female - Hole cutout 24mm	PS-1014	\$6.50	\$5.75	\$4.95

MINI XLR PLUGS & SOCKETS

3, 4 Pin Line

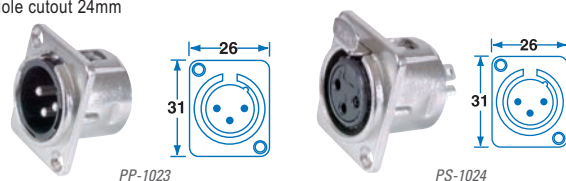
- Diecast body - Nickel plated



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP-1910	\$5.95	\$5.25	\$4.75
3 Pin - Female	PS-1924	\$6.95	\$6.25	\$5.50
4 Pin - Male	PP-1912	\$6.95	\$6.25	\$5.50
4 Pin - Female	PS-1926	\$6.95	\$6.25	\$5.50

Chassis Metal

- Small size, diecast body, nickel plated
- Hole cutout 24mm



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Small Size Metal - Male	PP-1023	\$5.95	\$5.25	\$4.75
Small Size Metal - Female	PS-1024	\$6.95	\$6.25	\$5.50

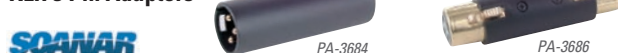
Rubber XLR Cover Boot

This 120mm flexible boot slips over the entire XLR - XLR connection to keep water and dust out. Indispensable for protecting permanent connections from damage & dust.



	Cat.	Qty 1+	Qty 10+	Qty 50+
	PM-1034	\$1.65	\$1.45	\$1.30

XLR 3 Pin Adaptors



▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Male	PA-3684	\$12.95	\$11.35	\$10.35
Female	PA-3686	\$11.95	\$10.75	\$9.55

XLR to 6.5mm Plug Adaptors

High quality, metal construction, ideal for converting microphone leads to 6.5mm plugs.



▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Female	PA-3682	\$12.95	\$11.35	\$10.35
Male	PA-3680	\$8.95	\$7.95	\$6.95

XLR to RCA Adaptors



▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Male	PA-3800	\$9.95	\$8.75	\$7.75
Female	PA-3802	\$9.95	\$8.75	\$7.75

Waterproof & Dust Proof XLR Plate Mount

Suitable for wet and harsh environments. Features an IPX6 rated rubber gasket and cover to prevent ingress when not in use. Surface mount via screws, hole required for socket recess.

- Dimensions: 43(L) x 35(W) x 35(D)mm



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
3 Pin - Male	PP-1014	\$7.95	\$7.15	\$6.35

WALLPLATES STAINLESS STEEL

No matter what audio installation you're contemplating, you're sure to find a wallplate to give your room that pro look. Finished in attractive stainless steel, these cost-effective wallplates have all the popular audio connectors, or use a blank to customise your own. Ideal for Hi-Fi installations, home studios, home theatre or just a neat solution to running an AV extension to another room.

XLR - Blank

Pre-punched blanks for XLR sockets.

- Sockets not included



XLR - Loaded

Pre-punched wallplate with loaded XLR socket(s).



Looking for more wallplates?
See page 383



▲ Type	Cat.	Qty 1+	Qty 2+	Qty 5+
Single Blank	PS-0551	\$4.50	\$3.95	\$3.60
Double Blank	PS-0552	\$4.95	\$4.45	\$3.95

▲ Type	Cat.	Qty 1+	Qty 2+	Qty 5+
Single 3 pin Female XLRs	PS-0553	\$6.95	\$6.25	\$5.50
Double 3 pin Female XLRs	PS-0554	\$9.95	\$8.75	\$7.75

KEYSTONE INSERTS

Inserts for Keystone Wallplates

A range of inserts to cater for computer and Audio video applications. They fit standard 110 keystone wallplates and allow you to configure your installation any way you like.



▲ Type	Cat.	Qty 1+	Qty 5+	Qty 10+
TOSLINK - TOSLINK	PS-0749	\$3.95	\$3.55	\$3.15
USB - USB Female	PS-0753	\$4.95	\$4.45	\$3.95
USB - USB - Right Angle	PS-0795	\$5.95	\$5.35	\$4.75
F81 - F81 - White	PS-0761	\$2.95	\$2.65	\$2.35
BNC - BNC - White	PS-0763	\$2.95	\$2.65	\$2.35
RCA - RCA - White	PS-0764	\$2.95	\$2.65	\$2.35
RCA - RCA - Red	PS-0765	\$2.95	\$2.65	\$2.35
RCA - RCA - Yellow	PS-0767	\$2.95	\$2.65	\$2.35
RCA - RCA - Blue	PS-0794	\$2.95	\$2.65	\$2.35
RCA - RCA - Green	PS-0798	\$2.95	\$2.65	\$2.35

▲ Type	Cat.	Qty 1+	Qty 5+	Qty 10+
S-Video - S-Video	PS-0769	\$2.95		
HDMI - HDMI - White	PS-0771	\$8.95	\$8.05	\$7.15
HDMI - HDMI Right Angle	PS-0796	\$8.95	\$8.05	\$7.15
HDMI - HDMI with Flylead	PS-0797	\$9.95	\$8.95	\$7.95
USB - USB - White	PS-0773	\$4.95	\$4.45	\$3.95
4mm Banana - Red	PS-0774	\$3.95	\$3.55	\$3.15
4mm Banana - Black	PS-0775	\$3.95	\$3.55	\$3.15
3.5mm Stereo Socket	PS-0777	\$3.95	\$3.55	\$3.15
Blank Insert	PS-0779	\$0.35	\$0.32	\$0.28
USB 3.0 - USB 3.0 - White	PS-0799	\$11.95	\$10.45	\$9.45

WALLPLATES & SOCKETS

DVI Wallplate Socket With 4 Keystone Ports

Features a DVI socket to socket joined to the wallplate with standard D-sub screws as well as 4 keystone ports. Expand your wallplate with a combination of other required sockets.

- Dimensions: 115(L) x 70(W)mm



▲	Cat.	Qty 1+
	YN-8057	\$7.95



VGA Wallplate Socket with 4 Keystone Ports

VGA Wall Plate Socket with 4 Keystone Ports

▲	Cat.	Qty 1+
	YN-8059	\$7.95



Keystone Wallplates

Flush type wallplates accept our standard keystone 110 jacks. Fits standard Australian switch plate installation hardware and screw centres, making it perfect for easy flush installation on plasterboard or other cavity walls.

- Supplied without keystone jacks
- Dimensions 70(W) x 114(H) x 6(D)mm



▲		Cat.	Qty 1+	Qty 5+	Qty 10+
	Single White	YN-8050	\$1.75	\$1.55	\$1.40
	Double White	YN-8052	\$1.75	\$1.55	\$1.40
	Triple White	YN-8054	\$1.75	\$1.55	\$1.40
	Quad White	YN-8056	\$1.75	\$1.55	\$1.40
	6 Way White	YN-8058	\$1.75	\$1.55	\$1.40

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See front of catalogue for details



See page 90 for other wallplates

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!



MICROPHONE SERIES PLUGS & SOCKETS

MICROPHONE CHASSIS MALE

- Solid metal machined body
- Nickel plated
- 10A max 32VDC



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PP-2013	\$2.95	\$2.60	\$2.30
4 Pin	PP-2010	\$2.95	\$2.60	\$2.30
5 Pin	PP-2017	\$3.45	\$3.05	\$2.75

MICROPHONE LINE FEMALE

- Solid metal machined body
- Nickel plated
- Also suitable for secure, low voltage DC connection
- 10A max 32VDC



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PS-2014	\$2.95	\$2.60	\$2.30
4 Pin	PS-2012	\$2.95	\$2.60	\$2.30
5 Pin	PS-2018	\$3.45	\$3.05	\$2.75

DIN PLUGS & SOCKETS

Originally a German standard, these connectors are available in versions from 2 to 13 pins. Once widely used, these are now seen less on AV equipment. The 2 pin version is used for some loudspeakers and 5 pin version is still used for connecting MIDI electronic musical instruments & older PC keyboards.

Line DIN Plugs



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PP-0300	\$0.95	\$0.86	\$0.76
3 Pin	PP-0302	\$1.15	\$1.00	\$0.90
5 Pin	PP-0304	\$1.35	\$1.20	\$1.05
5 Pin 240°	PP-0305	\$1.35	\$1.20	\$1.05
5 Pin Premium Die Cast	PP-0306	\$3.75	\$3.30	\$2.95
6 Pin	PP-0308	\$1.65	\$1.45	\$1.30
7 Pin	PP-0310	\$1.95	\$1.75	\$1.55
8 Pin	PP-0312	\$1.95	\$1.75	\$1.55

Line Sockets - 5, 6, 8 Pin



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
5 Pin	PS-0352	\$1.85	\$1.65	\$1.45
6 Pin	PS-0355	\$2.45	\$2.15	\$1.95
8 Pin	PS-0358	\$2.95	\$2.60	\$2.30

MINI DIN PLUGS, SOCKETS & ADAPTORS

Mini DIN Plugs



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin - Nickel Plated	PP-0362	\$3.95	\$3.45	\$3.15
4 Pin - Nickel Plated	PP-0364	\$1.75	\$1.55	\$1.40
4 Pin - Gold Plated - 6mm	PP-0365	\$5.95	\$5.25	\$4.75
6 Pin - Nickel Plated	PP-0366	\$1.95	\$1.75	\$1.55
8 Pin - Nickel Plated	PP-0370	\$1.95	\$1.75	\$1.55

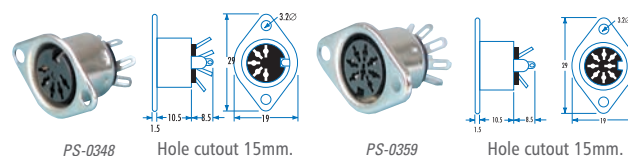
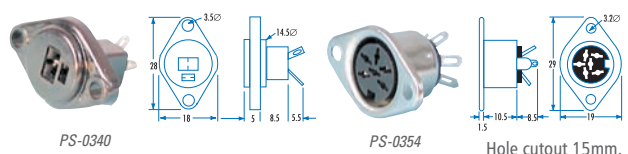
4 & 6 Pin Line Sockets



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin	PS-0372	\$1.95	\$1.75	\$1.55
6 Pin	PS-0368	\$2.25	\$1.95	\$1.80

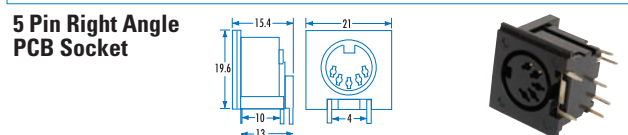
2, 5, 6, 8 Pin Panel Sockets

- Nickel plated



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin	PS-0340	\$1.45	\$1.30	\$1.15
5 Pin	PS-0348	\$1.65	\$1.45	\$1.30
6 Pin	PS-0354	\$1.95	\$1.75	\$1.55
8 Pin	PS-0359	\$2.95	\$2.60	\$2.30

5 Pin Right Angle PCB Socket

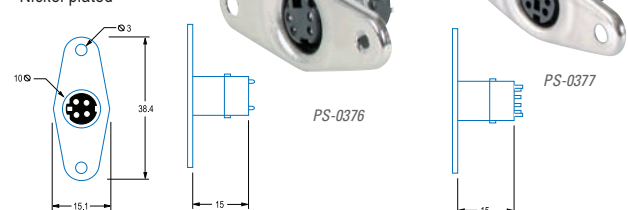


▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
5 Pin Right Angle	PS-0350	\$1.95	\$1.75	\$1.55

4, 6, 8 Pin Panel Sockets

Cutout 10mm.

- Nickel plated



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin	PS-0376	\$2.75	\$2.45	\$2.15
6 Pin	PS-0377	\$2.75	\$2.45	\$2.15

Mini DIN Adaptor



Note: Limited stock

▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
6 Pin Mini DIN Adaptor	PA-0878	\$7.95	\$6.95	\$6.25

COAXIAL - PAL PLUGS & SOCKETS

These are the standard aerial connectors for TVs and video recorders. They are often called "Belling-Lee" or "PAL" connectors.

75 Ohm Line Plugs



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic	PP-0600	\$1.95	\$1.75	\$1.55
Nickel Plated	PP-0602	\$2.45	\$2.15	\$1.95
Gold Plated	PP-0604	\$7.95	\$6.95	\$6.25
R/A Solderless	PP-0606	\$2.95	\$2.60	\$2.30
Crimp - RG59	PP-0607	\$2.95	\$2.60	\$2.30
Crimp - RG6	PP-0608	\$2.95	\$2.60	\$2.30
Joiner	PS-0622	\$1.75	\$1.55	\$1.40

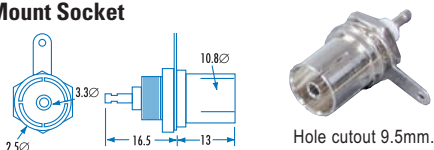
75 Ohm Line Sockets



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic	PS-0610	\$1.75	\$1.55	\$1.40
Nickel Plated	PS-0614	\$2.45	\$2.15	\$1.95
Right Angle Solderless	PS-0612	\$3.45	\$3.05	\$2.75
Crimp - RG59	PS-0611	\$2.75	\$2.45	\$2.15
Crimp - RG6	PS-0613	\$2.75	\$2.45	\$2.15
Gold	PS-0605	\$7.95	\$6.95	\$6.25
Joiner	PS-0620	\$1.75	\$1.55	\$1.40

75 Ohm Chassis Mount Socket

- Nickel plated
- High quality product



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-0628	\$2.95	\$2.60	\$2.30

75 Ohm Cable Joiner

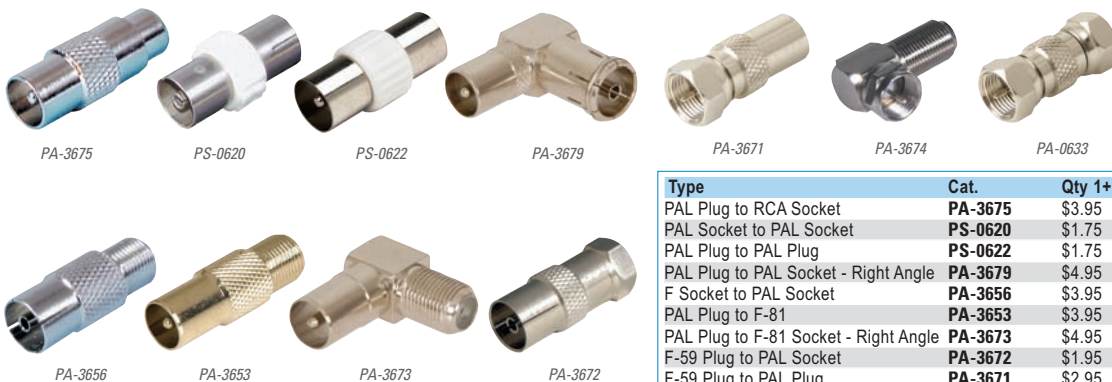
Hardwire connection of 50Ω or 75Ω coax cable.

- Works with 50Ω to 50Ω as well.
- Basically will even connect screened audio cable too.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-0618	\$2.95	\$2.60	\$2.30

COAXIAL - ADAPTORS



Type	Cat.	Qty 1+	Qty 4+	Qty 10+
PAL Plug to RCA Socket	PA-3675	\$3.95	\$3.45	\$3.15
PAL Socket to PAL Socket	PS-0620	\$1.75	\$1.55	\$1.40
PAL Plug to PAL Plug	PS-0622	\$1.75	\$1.55	\$1.40
PAL Plug to PAL Socket - Right Angle	PA-3679	\$4.95	\$4.45	\$3.90
F Socket to PAL Socket	PA-3656	\$3.95	\$3.45	\$3.15
PAL Plug to F-81	PA-3653	\$3.95	\$3.45	\$3.15
PAL Plug to F-81 Socket - Right Angle	PA-3673	\$4.95	\$4.45	\$3.90
F-59 Plug to PAL Socket	PA-3672	\$1.95	\$1.75	\$1.55
F-59 Plug to PAL Plug	PA-3671	\$2.95	\$2.60	\$2.30
F-59 Plug to F-81 Socket - Right Angle	PA-3674	\$3.95	\$3.45	\$3.15
F-59 Plug to Plug	PA-0633	\$1.65	\$1.45	\$1.30

COAXIAL - F TYPE PLUGS, SOCKETS & ADAPTORS

Used mainly for RF signals such as those for satellite dishes, cable boxes or TV aerials. The highest quality connections between your cable/satellite wallplate output and the cable/satellite box. Standard emerged from the US cable TV industry. Now the Aust./NZ standard.

F Type Plugs

F connectors recommended for all new TV installations

- Suits RG59 or RG6 cable

See pages 210 for Crimping Tools
& page 159 for Coaxial Cable



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Suits RG59	PP-0640	\$0.95	\$0.85	\$0.75
Suits RG6	PP-0641	\$0.95	\$0.85	\$0.75
F-59 Crimp Plug for RG59	PP-0702	\$1.95	\$1.75	\$1.55
F-59 Crimp Plug for RG6 Cable	PP-0704	\$1.95	\$1.75	\$1.55
F-59 Waterproof Compression Plug for RG6 Cable	PP-0708	\$1.95	\$1.75	\$1.55

DO A FRIEND A FAVOUR

If you have a technical friend or someone who may be just interested in some of the products we stock, simply mail or email his or her address to:

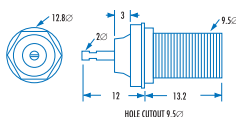
Catalogue Department
Jaycar Electronics:
PO Box 7172
Silverwater, NSW 1811
or email to
catalogue@jaycar.com

COAXIAL - F TYPE PLUGS, SOCKETS & ADAPTORS (CONTINUED)

F-61 Chassis Socket

Hole cutout 9.5mm.

• Nickel plated



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
F-61 Chassis	PS-0645	\$1.75	\$1.55	\$1.40

F-59 Type screw-On Plugs

These are ideal crimpless but strong F-plugs for low volume applications. Highly recommended. Simply strip coax back about 12mm, fold braid/foil back over the plastic outer sheath. Trim about 8mm of foam insulation from centre conductor. Then simply screw the knurled connector on the cable until you see sufficient centre conductor out of the front of the connector.

• Nickel plated



▲	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
	Suits RG59 Cable	PP-0637	\$1.45	\$1.30	\$1.15
	Suits RG6 Cable	PP-0638	\$1.45	\$1.30	\$1.15

Crimpless F-Type Plug to RG6

No crimper or soldering required.



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-0671	\$2.95	\$2.60	\$2.30

F-59 Tool-Less Compression Crimp Connector

No crimping tool required. Just strip back the outer and inner sheath, fold the braid back and push the connector on. The crimp is reliable with high mechanical strength and will never come off. Suitable for RG6 quad shield coax.



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-0677	\$2.50	\$2.21	\$1.95

FME

FME Line

As used on some mobile phone car kits.

- Crimp
- Nickel plated
- Gold centre pin

See page 210 for crimp tools



▲	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
	Plug	PP-0710	\$4.95	\$4.45	\$3.90
	Socket	PS-0712	\$3.95	\$3.45	\$3.15

FME - TNC Female Adaptor



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Female to Female	PA-0619	\$5.95	\$5.25	\$4.75

FME Plug to PL259 UHF Plug Adaptor



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to Plug	PA-0611	\$8.95	\$8.05	\$7.15

TNC

Line Plugs



▲	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
	Solder	PP-0664	\$3.95	\$3.45	\$3.15
	Crimp - RG58U	PP-0665	\$3.95	\$3.45	\$3.15
	Crimp - RG59U	PP-0667	\$3.95	\$3.45	\$3.15

F-59 Line Plug - Solderless Type

Screw assembly - no soldering is required



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-0709	\$2.95	\$2.60	\$2.30

F-59 Type 75 Ohm Dummy Load

Simply screw on to unused ports of splitters, etc to maintain good VSWR.

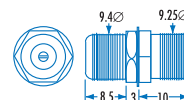
• Nickel plated



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
Dummy Load	PP-0639	\$1.50	\$1.35	\$1.20

F-81 Inline Joiner

• Nickel plated



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-0646	\$1.95	\$1.75	\$1.55

F-81 Inline Joiner - Foxtel Approved

- Socket to Socket
- Foxtel Approved



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-0648	\$4.95	\$4.45	\$3.90

Tool-Less F59 RG6 Plug

Just strip the end of your RG6 coax cable and apply the connector. No crimping tools, no soldering and nothing could be simpler!



NEW
2017

▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-0601	\$1.49	\$1.34	\$1.19

N TYPE



▲	Type	Cat.	Qty 1+	Qty 10+	Qty 50+
	Line Plug - suits RG58U	PP-0672	\$5.95	\$5.25	\$4.75
	Line Socket - suits RG58U	PS-0673	\$6.95	\$6.25	\$5.50
	Panel Socket	PS-0674	\$6.95	\$6.25	\$5.50



SHOW US YOUR BUILD COMPETITION

Richard, who shops at our Jaycar Maddington store built:

Wires, switches, LEDs, Potentiometers, Rotaries, Fuses, Resistors, Crimps, Solder, Heatshrink, Servos, add them all together and you have the makings of a 737 Simulator Cockpit ready to reach for the skies. Dream Big...Jaycar can make Impossible Dreams Real!!!

BNC

BNC plugs lock on to the socket and are used for some digital audio connections as well as for video connections, particularly CCTV.

Male Line Plugs

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Solder Type	PP-0650	\$3.25	\$2.90	\$2.60
Crimp RG59	PP-0688	\$3.25	\$2.90	\$2.60
Crimp RG6	PP-0689	\$4.95	\$4.45	\$3.90
Solderless Type	PP-0652	\$4.95	\$4.45	\$3.90

Crimpleless BNC Plug to RG6

No crimping or soldering required.

- Crimpleless BNC Plug to RG6



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-0675	\$3.95	\$3.55	\$3.15

Male Crimp Plugs

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
0.7mm Centre Pin - suits RG59	PP-0647	\$2.95	\$2.60	\$2.30
0.9mm Centre Pin - suits Belden	PP-0651	\$2.95	\$2.60	\$2.30
Crimp Type - RG58	PP-0649	\$2.95	\$2.60	\$2.30
Crimp Type - RG6	PP-0657	\$3.95	\$3.45	\$3.15
Compression Crimp	PP-0669	\$3.95	\$3.45	\$3.15

Crimp Plug Boot

Suits - PP-0695 Mini UHF plug, PS-0660 BNC female line crimp, PP-0649 BNC RG58 Crimp plug & PP-0651 BNC RG59 Crimp plug.



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
	PM-0648	\$1.95	\$1.75	\$1.55

Male Twist On Plugs

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Twist on for RG59 0.9mm centre	PP-0678	\$3.95	\$3.45	\$3.15
Twist on for RG6	PP-0679	\$4.95	\$4.45	\$3.90
Terminator plug with 50Ω resistor	PP-0655	\$4.95	\$4.45	\$3.90

Line Sockets

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Line Socket - RG58	PS-0660	\$4.95	\$4.45	\$3.90
Line Socket - RG6	PS-0659	\$4.95	\$4.45	\$3.90
Joiner	PS-0663	\$3.95	\$3.45	\$3.15

RJ11/12 MODULAR

50µ" Gold Contact

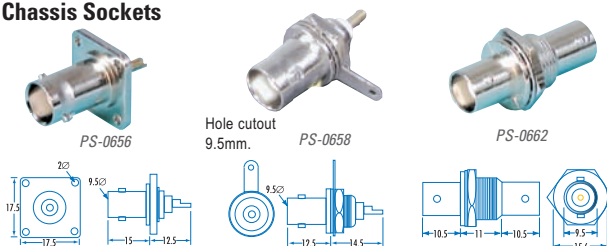
4 PIN FOR
STRANDED CABLE
4/4 - RJ11



6 PIN FOR
STRANDED CABLE
6/6 - RJ12



▲ Type	Cat.	Qty 1+	Qty 5+	Qty 20+
RJ11 - Pack of 5	PP-1430	\$2.45	\$2.15	\$1.95
RJ11 - Pack of 50	PP-1431	\$19.95	\$17.95	\$15.95
RJ12 - Pack of 5	PP-1432	\$2.95	\$2.60	\$2.30
RJ12 - Pack of 50	PP-1433	\$23.95	\$21.35	\$18.95

Chassis Sockets

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Square Mount	PS-0656	\$2.95	\$2.60	\$2.30
Single Hole Mount	PS-0658	\$3.95	\$3.45	\$3.15
Double Female Mount	PS-0662	\$4.45	\$3.95	\$3.45

BNC PCB

- PCB connect with optional panel screw fixing



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-0661	\$7.95	\$6.95	\$6.25

BNC with Terminals

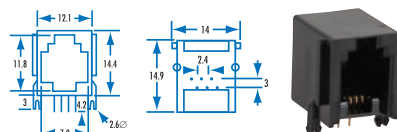
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Screw Terminal	PA-3715	\$4.95	\$4.45	\$3.95
Spring Terminal	PA-3716	\$4.95	\$4.45	\$4.00

BNC Adaptors

Type	Cat.	Qty 1+	Qty 4+	Qty 10+
BNC Plug to F59 Plug Adaptor	PA-3661	\$4.95	\$4.45	\$3.90
BNC Adaptor 1 Male to 2 Female - T	PA-3662	\$5.95	\$5.25	\$4.75
BNC Adaptor 1 Male to 2 Female - Y	PA-3664	\$9.95	\$8.75	\$7.75
BNC T Adaptor	PA-3660	\$4.95	\$4.45	\$3.90
BNC Male to Double Binding	PA-3666	\$8.95	\$7.95	\$6.95
Sockets/Banana Sockets				
BNC Plug to BNC Plug Adaptor	PA-3665	\$4.95	\$4.45	\$3.90
BNC Plug to F-81 Socket	PA-3651	\$1.95	\$1.75	\$1.55
BNC Plug to RCA Socket	PA-3654	\$3.95	\$3.45	\$3.15
PL259 Plug to BNC Socket	PA-3652	\$6.95	\$6.25	\$5.50
PL259 Socket to BNC Plug	PA-0681	\$3.95	\$3.45	\$3.15
BNC Plug to BNC Socket R/A	PA-3663	\$4.95	\$4.45	\$3.90

PCB MODULAR SOCKETS

Side entry.
Not ACMA Approved



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4/4 - RJ11	PS-1470	\$1.65	\$1.45	\$1.30
6/6 - RJ12	PS-1474	\$1.95	\$1.75	\$1.55

RJ45 MODULAR

Modular Plugs

50µ" Gold Contact

8/8 - RJ45

• Not ACMA Approved

▲ Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP-1436	\$7.95	\$6.95	\$6.25

SCREENED 8 PIN FOR STRANDED CABLE

8P8C with full screening and round cable entry for connection to STP cable.



▲ Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP-1437	\$14.95	\$13.35	\$11.70

RJ45 MODULAR PLUGS FOR STRANDED/SOLID CAT 6 CABLE PK10

RJ45 Modular Plugs for Stranded and Solid Cat 6 Cable. Pack of 10



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
RJ45 Standard - Pack of 10	PP-1447	\$13.95	\$12.35	\$10.95

8 PIN FOR FLAT STRANDED CABLE
8/8 - RJ458 PIN FOR ROUND SOLID CORE CABLE
8/8 RJ45

▲	Cat.	Qty 1+	Qty 5+	Qty 20+
RJ45 Standard - Pack of 5	PP-1434	\$5.95	\$5.25	\$4.75
RJ45 Standard - Pack of 50	PP-1435	\$29.95	\$26.95	\$23.95
RJ45 Solid - Pack of 6	PP-1438	\$6.95	\$6.25	\$5.50
RJ45 Solid - Pack of 50	PP-1439	\$34.95	\$31.45	\$27.90

RJ45 BOOTS

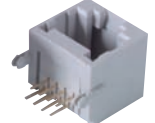
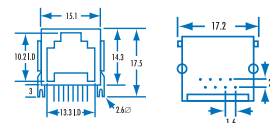
A packet of boots to suit RJ45 8/8 plugs.



▲ Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PM-1441	\$4.95	\$4.45	\$4.15
50 Blue	PM-1442	\$15.95	\$14.35	\$12.75

8 PIN PCB MODULAR SOCKET

- Side entry
- Not ACMA approved



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
8/8 - RJ45	PS-1478	\$2.45	\$2.15	\$1.95

Waterproof RJ45 Cable Connector Housing

Allows you to join two Cat5e cables while providing a robust and waterproof connection. Use around the garage, factory or workshop to avoid dust or water ingress, or to survive the knocks and bumps around the office.

Includes 2-way Cat5 joiner, but will also accommodate any connector that fits within the internal dimensions of the housing.



- IP Rating: IP68
- Accepts cables: 4 - 7mm Dia.
- Dimensions: 120(L) x 35(Dia.)mm

*Not ACMA approved



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	PS-4064	\$19.95	\$17.95	\$15.95

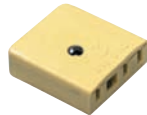
TELEPHONE

PLUG 610 TYPE WALL SKT

For other telephone leads, adaptors - see our Computer & Multimedia section

- Blister pack.
- ACMA Approved

Note: Not available in New Zealand



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
	PS-1410	\$6.95	\$6.25	\$5.50

4 Way Punchdown Block Connector

For use with standard 110 punch down tools. PCB mounting.



▲	Cat.	Qty 1+
4 Way	PT-5000	\$0.25

WALLPLATES & KEYSTONE SOCKETS

Australian / NZ Flush Plates

Our premium Australian / NZ flush plates not only accept our Cat 5e jacks, they are also compatible with many other standard Australian mechanisms and jacks.

- Fits standard Australian/NZ switch plates
- Perfect for easy flush installation on Gyprock walls
- Supplied unloaded without jacks (see cat. YN-8036)
- 116(W) x 75(H) x 13(D)mm



▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
Single	YN-8015	\$5.95	\$5.25	\$4.75
Double	YN-8016	\$5.95	\$5.25	\$4.75
Triple	YN-8017	\$5.95	\$5.25	\$4.75

RJ12 IDC Socket for Flush Plates

Voice grade RJ12 6P4C IDC jack with 2 IDC connections per contact allowing easy loop-in, loop-out for typical voice applications. Compatible with most standard Australian flush plates. Rear termination with IDC impact tool.



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
	YN-8035	\$9.95	\$8.75	\$7.75

Cat 5e IDC Jack to Suit Australian / NZ Style Flush Plates

Our premium Cat 5e IDC data jack designed to suit our wallplates shown above. They also suit many other brands of Australian/NZ flush plates.

- Rear terminated with 110 or Krone impact tool.
- T568A & T568B colour coding for easy installation.
- Suit YN-8015/16/17 flush plates.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8036	\$9.95	\$8.75	\$7.75

Inserts for Keystone Wallplates



▲ Type	Cat.	Qty 1+	Qty 5+	Qty 10+
RJ11	YN-8026	\$3.95	\$3.55	\$3.15
RJ12	YN-8027	\$3.95	\$3.55	\$3.15
RJ45 Cat5e	YN-8028	\$3.95	\$3.55	\$3.15
RJ45 Cat6	YN-8029	\$3.95	\$3.55	\$3.15



Also see page 139, 383 for wallplates to suit

Keystone Surface Box

Side entry surface mount boxes accept our standard keystone 110 jacks.

- Snap-on cover for easy access to wiring.
- Double sided tape for easy installation.
- Supplied unloaded without keystone jacks.



▲ W x H x D (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Single 30 x 60 x 26	YN-8022	\$5.95	\$5.25	\$4.75
Double 55 x 60 x 26	YN-8024	\$5.95	\$5.25	\$4.75

110 Keystone Jack

Suitable for use with our keystone wall plates and keystone surface boxes.

- For termination with ISBY impact tool and has combined 568A and T568B colour coding for easy installation.
- White in colour.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8030	\$9.95	\$8.75	\$7.75

USB/HDMI

TYPE A & TYPE B PLUGS
With solder lugs.

▲ Type		Qty 1+	Qty 10+	Qty 50+
A	PP-0790	\$2.45	\$2.15	\$1.95
B	PP-0792	\$2.45	\$2.15	\$1.95

TYPE A & TYPE B PC MOUNT SOCKETS
4P4C.

▲ Type		Qty 1+	Qty 10+	Qty 50+
A	PS-0916	\$2.95	\$2.60	\$2.30
B	PS-0920	\$2.95	\$2.60	\$2.30
Micro B	PS-0922	\$2.95	\$2.60	\$2.30

TYPE A IP67 RATED PLUG CABLES

Industrial USB connectors encased in robust housing with IP67 seal.

- Current rating 1.5A
- -40° to +105°C
- PBT UL94V-0 body



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
A Male 1m Lead	PP-0784	\$13.95	\$12.55	\$11.15

TYPE A PANEL MOUNT USB SOCKETS

Panel-mounting Type A USB socket.

- Suits panels up to 10mm thick.
- Mounting hole 20mm



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
A Female	PS-0782	\$19.95	\$17.95	\$15.95

SMA

SMA Connectors



▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	Line Plug - RG58 - Crimp	PP-0632	\$5.65	\$4.95	\$4.45
	Right Angle Plug - RG174 - Crimp	PP-0631	\$5.95	\$5.25	\$4.75
	Line Socket - RG174 - Solder	PS-0634	\$4.95	\$4.45	\$3.90
	Line Plug - RG58 - Crimp - R/A NEW	PP-0633	\$5.95	\$5.35	\$4.75

SMA Adaptors



▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
SMA Socket to Reverse SMA Plug	PA-0627	\$6.95	\$6.25	\$5.50
SMA Socket to Reverse SMA Socket	PA-0629	\$6.95	\$6.25	\$5.50
SMA Plug to Reverse SMA Plug	PA-0628	\$6.95	\$6.25	\$5.50
SMA Plug to PL259 Socket	PA-0612	\$7.95	\$7.10	\$6.25
FME Socket to SMA Socket	PA-0620	\$4.95	\$4.45	\$3.90
SMA Socket to FME Plug	PA-0621	\$4.95	\$4.45	\$3.90
SMA Plug to SMA Plug	PA-0622	\$4.95	\$4.45	\$3.90
SMA Socket to BNC Socket	PA-0624	\$4.95	\$4.45	\$3.90
SMA Plug to BNC Socket	PA-0615	\$5.95	\$5.25	\$4.75

PCB MOUNT PLUGS & SOCKETS

A range of PC mount connectors to suit the latest USB & HDMI technologies.



USB

▲ Type		Qty 1+	Qty 10+	Qty 50+
Type-A 3.0 Male	PP-0923	\$3.95	\$3.55	\$3.15
Type-A 3.0 Female	PS-0924	\$3.95	\$3.55	\$3.15
Type-A Micro 3.0 Male	PP-0925	\$3.95	\$3.55	\$3.15
Type-A Micro 3.0 Female	PS-0926	\$3.95	\$3.55	\$3.15
Type-B 3.0 Female	PS-0928	\$3.95	\$3.55	\$3.15
Type-C 2.0/3.0/3.1 Male	PP-0929	\$3.95	\$3.55	\$3.15
Type-C 3.1 Female	PS-0930	\$3.95	\$3.55	\$3.15

HDMI

▲ Type		Qty 1+	Qty 10+	Qty 50+
Type-A Male	PP-0941	\$3.95	\$3.55	\$3.15
Type-A Female	PS-0942	\$3.95	\$3.55	\$3.15
Micro Male	PP-0945	\$3.95	\$3.55	\$3.15
Micro Female	PS-0946	\$3.95	\$3.55	\$3.15
Mini Plug	PP-0943	\$3.95	\$3.55	\$3.15
Mini Female	PS-0944	\$3.95	\$3.55	\$3.15



See pages 366, 393 & 401 for new range of Type-C products

SCART

Carries stereo audio, composite video, S-video & RGB signals from AV source to your TV & also allow recording to other sources, for example VCR's. Originated in Europe.

SCART ADAPTOR

SCART Plug to 3 RCA sockets & a S-Video Socket



▲		Qty 1+	Qty 4+	Qty 10+
SCART Adaptor	PA-3659	\$14.95	\$13.35	\$11.70

SMA Reverse



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Reverse Line Plug - RG174U	PP-0590	\$5.95	\$5.25	\$4.75
Reverse Line Socket	PS-0592	\$5.95	\$5.25	\$4.75



▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
N Plug to SMA Socket	PA-0616	\$6.95	\$6.25	\$5.50
N Socket to SMA Socket	PA-0617	\$6.95	\$6.25	\$5.50
SMA Coupler	PA-0635	\$6.95	\$6.25	\$5.50
SMA Socket to PL259 UHF Plug	PA-0613	\$8.95	\$8.05	\$7.15
SMA Plug to FME Plug NEW	PA-0618	\$5.95	\$5.35	\$4.75
SMA Plug to SMA Plug - R/A NEW	PA-0631	\$6.95	\$6.25	\$5.55
SMA Socket to SMA Socket - R/A NEW	PA-0632	\$6.95	\$6.25	\$5.55
SMA Plug to Reverse SMA Socket NEW	PA-0630	\$6.95	\$6.25	\$5.55

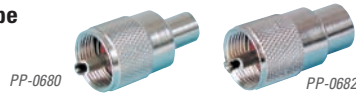
UHF PLUGS & SOCKETS

UHF - Mini Male Line Plugs



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Crimp - RG58U	PP-0695	\$4.95	\$4.45	\$3.90
Crimp - RG59	PP-0694	\$4.95	\$4.45	\$3.90

UHF Line Plugs - PL259 Type



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Solder - RG-58U - with Reducer	PP-0680	\$2.95	\$2.60	\$2.30
Solder - RG-8U	PP-0682	\$2.95	\$2.60	\$2.30

UHF Joiner & Socket



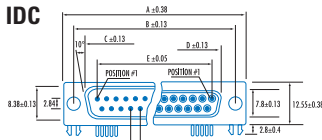
Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Joiner - Double Female	PS-0690	\$3.95	\$3.45	\$3.15
SO239 Chassis Socket	PS-0686	\$2.95	\$2.60	\$2.30

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!

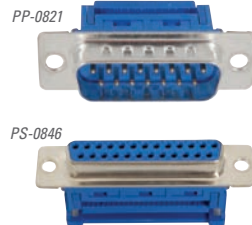
D CONNECTORS PLUGS, SOCKETS & HARDWARE

D - IDC



Sizes shown in mm

Size	A	B	C	D	E	F
9 Pin	30.81	24.99	16.92	16.24	11.09	2.74
25 Pin	53.04	47.04	38.96	38.38	33.24	2.77

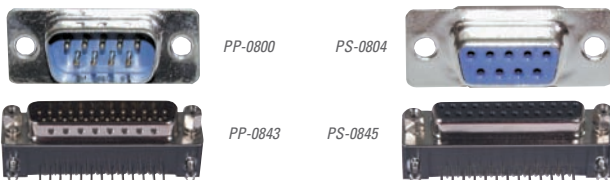


Type	Pin	Cat.	Qty 1+	Qty 10+	Qty 50+
IDC Plug	9 Pin	PP-0802	\$3.95	\$3.45	\$3.15
IDC Plug	15 Pin	PP-0821	\$4.45	\$3.95	\$3.45
IDC Plug	25 Pin	PP-0842	\$4.65	\$4.15	\$3.60
IDC Socket	9 Pin	PS-0805	\$3.95	\$3.45	\$3.15
IDC Socket	15 Pin	PS-0825	\$4.45	\$3.95	\$3.45
IDC Socket	25 Pin	PS-0846	\$4.65	\$4.15	\$3.60

D Male / Female

MALE SOLDER

All 'D' connectors have quality gold plated contacts & nickel plated shells.



Type	Pin	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug Solder	9 Pin	PP-0800	\$1.45	\$1.30	\$1.15
Plug Solder	15 Pin	PP-0820	\$1.95	\$1.75	\$1.55
Plug Solder	15HD Pin	PP-0831	\$3.65	\$3.15	\$2.90
Plug Solder	25 Pin	PP-0840	\$1.95	\$1.75	\$1.55
Plug Solder	37 Pin	PP-0860	\$4.95	\$4.45	\$3.90
Socket Solder	9 Pin	PS-0804	\$1.95	\$1.75	\$1.55
Socket Solder	15 Pin	PS-0824	\$1.95	\$1.75	\$1.55
Socket Solder	15HD Pin	PS-0832	\$3.65	\$3.15	\$2.90
Socket Solder	25 Pin	PS-0844	\$1.95	\$1.75	\$1.55
Socket Solder	37 Pin	PS-0864	\$4.95	\$4.45	\$3.90
R/A Plug Solder	9 Pin	PP-0803	\$2.95	\$2.60	\$2.30
R/A Plug Solder	25 Pin	PP-0843	\$3.65	\$3.15	\$2.90
R/A Socket Solder	9 Pin	PS-0806	\$2.95	\$2.60	\$2.30
R/A Socket Solder	25 Pin	PS-0845	\$3.65	\$3.15	\$2.90

D-SUB IP67 HARSH ENVIRONMENT

Robust D-Sub connectors housed in industrial body and IP67 waterproof housing.

- Current rating 5A,
- -40° to +105°C
- Gold flash plating on contacts



Type	Pin	at.	Qty 1+	Qty 10+	Qty 50+
Plug Solder	9 Pin	PP-1216	\$17.95	\$15.95	\$14.35
Plug Solder	25 Pin	PP-1226	\$19.95	\$17.95	\$15.95
Socket Solder	9 Pin	PS-1210	\$17.95	\$15.95	\$14.35
Socket Solder	25 Pin	PS-1220	\$19.95	\$17.95	\$15.95

D Backshells

PLASTIC

Screws supplied.



ABS FLAMEPROOF D BACKSHELLS

Top quality grey back shells with two cable entries.

- Rear or side entry.
- Simply push out the tab required.
- Supplied with 2 long finger screws, cable clamp screws and hood fixing screws.
- A quality range of backshells.



Type	Pin	Cat.	Qty 1+	Qty 10+	Qty 50+
Plastic D Backshells	9 Pin	PM-0808	\$2.25	\$1.95	\$1.80
Plastic D Backshells	15 Pin	PM-0828	\$2.45	\$2.15	\$1.95
Plastic D Backshells	25 Pin	PM-0848	\$2.95	\$2.60	\$2.30
Plastic D Backshells	37 Pin	PM-0868	\$3.95	\$3.45	\$3.15
Metal D Backshells	9 Pin	PM-0812	\$3.95	\$3.45	\$3.15
Metal D Backshells	15 Pin	PM-0833	\$4.95	\$4.45	\$3.90
Metal D Backshells	25 Pin	PM-0847	\$6.95	\$6.25	\$5.50
ABS D Backshells	9 Pin	PM-0810	\$2.95	\$2.60	\$2.30
ABS D Backshells	15 Pin	PM-0830	\$3.25	\$2.90	\$2.60
ABS D Backshells	25 Pin	PM-0850	\$3.95	\$3.45	\$3.15

D Hardware

SUB HEX NUT EXTENDERS

Pkt of 8 pairs (16 pcs) 6mm hex nut extenders for D connectors.

- Double female screw adaptor.
- Pack of 8 pairs



THUMB SCREWS FOR D BACKSHELLS

Pkt of 4 pairs (8 pcs) of universal thumb screws for D backshells.

- Total length 44mm.
- Pack of 4 pairs



LOCKING NUTS FOR D CONNECTORS

Packets of 5 pairs (10 pcs.) of D locking nuts.

- Includes screws, nuts and washers.
- 6mm length.
- Pack of 5 pairs



JACK SCREW TO SUIT D-SUB

- 13mm length



Type	Pack	Cat.	Qty 1+	Qty 10+	Qty 50+
Hex Nut Extenders	8	PM-0857	\$4.95	\$4.45	\$3.90
Thumb Screws	4	PM-0859	\$4.95	\$4.45	\$3.90
Jack Screw	-	PM-0854	\$0.75	\$0.65	\$0.60
Jack Screw Locking	5	PM-0852	\$4.95	\$4.45	\$3.90

Locking Nut Set for D-Connectors

Suits D connectors.

- Length 13mm.



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Hex Nut Extenders	PM-0855	\$2.95	\$2.60	\$2.30

HEADER CONNECTORS

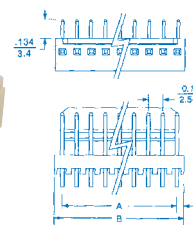
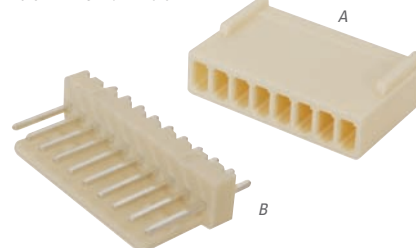
0.1" (2.54mm) Locking & Polarising Header Connectors

A range of connectors for PCB mounting that allow circuit boards to be plugged together at right angles or end-to-end, or cables to be plugged onto circuit boards at right angles or end-on at the edge of the PCB. Both plugs and sockets may be butted up end-to-end to form connectors with any number of ways from 2 upwards.

TECHNICAL INFORMATION	ALL MODELS
Voltage	250V
Current: Brass Crimp/Tin plated	2.5A max. (solderable)
Contact Resistance	20mΩ max
Dielectric Withstanding Voltage	1500VAC
Insulation Resistance	50MΩ
Contact insertion force	681g
Contact Retention to Housing	3.63kg
Mating Force	199g max
Normal Force	200g min
Housing	UL 94v-0 White nylon
Temperature	0 to +75°C

Both plugs are wafer design into which square, tin-plated brass pins have been inserted. These pins protrude 3.4 mm on one side, and should be soldered to the PCB. The nylon wafer sits on the PCB and is 3.3 mm thick. The back provides locking and polarising.

- 0.9mm PCB drill hole



Suitable crimping tool for 0.1" header sockets is our Cat. TH-1834

0.1" HEADER SOCKETS, LOCKING & POLARISED See photograph "A"

▲ Pins		Qty 1+	Qty 4+	Qty 10+
2	HM-3402	\$0.50	\$0.45	\$0.40
3	HM-3403	\$0.55	\$0.47	\$0.42
4	HM-3404	\$0.65	\$0.57	\$0.50
6	HM-3406	\$0.75	\$0.65	\$0.60
8	HM-3408	\$0.95	\$0.85	\$0.75
10	HM-3410	\$1.10	\$0.95	\$0.85

0.1" PIN PCB PLUG (STRAIGHT ENTRY, LOCKING & POLARISED) See photograph "B"

▲ Pins		Qty 1+	Qty 4+	Qty 10+
2	HM-3412	\$0.20	\$0.18	\$0.16
3	HM-3413	\$0.30	\$0.25	\$0.24
4	HM-3414	\$0.40	\$0.35	\$0.30
6	HM-3416	\$0.60	\$0.52	\$0.47
8	HM-3418	\$0.80	\$0.70	\$0.62
10	HM-3420	\$1.00	\$0.90	\$0.80

0.1" PIN PCB PLUG (RIGHT ANGLE ENTRY, LOCKING & POLARISED) See photograph "C"

▲ Pins		Qty 1+	Qty 4+	Qty 10+
2	HM-3422	\$0.30	\$0.25	\$0.24
3	HM-3423	\$0.35	\$0.30	\$0.27
4	HM-3424	\$0.40	\$0.35	\$0.30
6	HM-3426	\$0.60	\$0.52	\$0.47
8	HM-3428	\$0.80	\$0.70	\$0.62
10	HM-3430	\$0.90	\$0.80	\$0.70

0.156" (4mm) Locking & Polarising Header Connectors

This range is similar to the range shown above, but much more robust. The contacts are rated at 250V @ 7A AC/DC which makes them an ideal power connector to a PCB. They are end to end stackable and commonly seen as the output connector on Switchmode power supplies.

TECHNICAL INFORMATION	ALL MODELS
Voltage	250V
Current	7.0A
Contact Resistance	20mΩ max
Dielectric Withstanding Voltage	1500V
Insulation Resistance	500k Ohm min
Contact Insertion Force	2.28kg
Contact Retention to Housing	4.56kg
Wire Pull-Out force	2.85kg
Mating Force	0.86kg
Unmating Force	150g
Durability	25 cycles
Housing	Nylon, UL 94V-2
Temperature	-40 to 105°C

0.156" (4MM) HEADER SOCKETS, LOCKING & POLARISED (Includes crimp Pins)

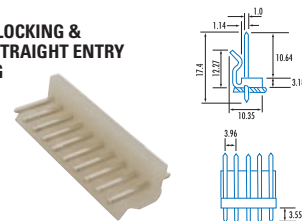
Crimper to suit Cat TH-1834

▲ Pins		Qty 1+	Qty 4+	Qty 10+
2	HM-3432	\$0.80	\$0.70	\$0.62
3	HM-3433	\$0.90	\$0.80	\$0.70
4	HM-3434	\$1.00	\$0.90	\$0.80
6	HM-3436	\$1.30	\$1.15	\$1.01
8	HM-3438	\$1.40	\$1.25	\$1.10
10	HM-3440	\$1.50	\$1.35	\$1.20

0.156" (4MM) LOCKING & POLARISED, STRAIGHT ENTRY PIN PCB PLUG (To match previous headers).

(To match previous headers).

▲ Pins		Qty 1+	Qty 4+	Qty 10+
2	HM-3442	\$0.30	\$0.25	\$0.24
3	HM-3443	\$0.35	\$0.30	\$0.27
4	HM-3444	\$0.40	\$0.35	\$0.30
6	HM-3446	\$0.60	\$0.52	\$0.47
8	HM-3448	\$0.80	\$0.70	\$0.62
10	HM-3450	\$0.90	\$0.80	\$0.70



DISK DRIVE CONNECTORS

Disk Drive - 4 Pin Connectors

DISK DRIVE POWER CONNECTOR - PLUG

Plug for wiring power to any standard drive. Has crimp pins.



DISK DRIVE PCB POWER PLUG Power plug for PC drives.



DISK DRIVE POWER SOCKET

Socket for wiring power cables for use on any standard drive. Has crimp pins.



DISK DRIVE IDC POWER SOCKET • Insulation displacement type



▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	Power Plug	PP-0743	\$1.95	\$1.75	\$1.55
	PCB Power Plug	PP-0744	\$1.45	\$1.30	\$1.15
	Power Socket	PS-0742	\$2.95	\$2.60	\$2.30
	IDC Power Socket	PS-0740	\$3.95	\$3.45	\$3.15

SOLDER LUGS & TAGSTRIPS

Solder Lugs

Solder lugs for any screw down connection.

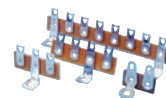
- Length: 17.6mm
- ID#1: 4.3mm
- ID#2: 2.0mm
- Tin plated
- 10A rated



▲ Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
50	HP-1350	\$3.95	\$3.45	\$3.15

Tagstrips

- Tin plated lugs

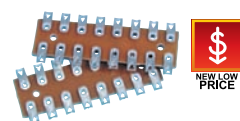


▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	HM-3302	\$0.65	\$0.59	\$0.52
3 Way	HM-3303	\$0.80	\$0.72	\$0.64
4 Way	HM-3304	\$0.95	\$0.86	\$0.76
5 Way	HM-3305	\$1.10	\$0.95	\$0.85
8 Way	HM-3308	\$1.50	\$1.35	\$1.20

Tagboard

2 tagboards per pack with 8 tin plated lugs per side.

- Dimensions: 80(L) x 32(W)mm including lugs.



▲ Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM-3320	\$3.50	\$3.15	\$2.80

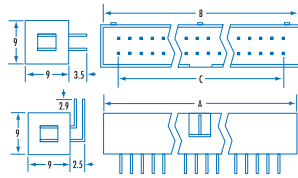
IDC PLUGS, SOCKETS & PINS

IDC Headers

All headers have gold plated pins.

VERTICAL

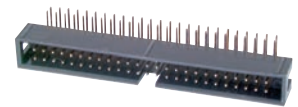
DIMENSIONS (mm)	Pins	A	B	C
Cat. PP-1100	10	20	18	10
Cat. PP-1106	16	28	26	18
Cat. PP-1110	26	41	38.5	30.5
Cat. PP-1112	34	51	49.5	41
Cat. PP-1114	40	58.5	56	48
Cat. PP-1116	50	71	69	61



▲ Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
10	PP-1100	\$0.95	\$0.85	\$0.75
16	PP-1106	\$1.25	\$1.10	\$0.97
26	PP-1110	\$1.65	\$1.45	\$1.30
34	PP-1112	\$1.95	\$1.75	\$1.55
40	PP-1114	\$2.25	\$1.95	\$1.80
50	PP-1116	\$0.95		

RIGHT ANGLE

DIMENSIONS (mm)	Pins	A	B	C
Cat. PP-1118	10	20	18	10
Cat. PP-1122	16	28	26	18
Cat. PP-1126	26	41	38.5	30.5
Cat. PP-1128	34	51	49.5	41
Cat. PP-1132	50	71	69	61

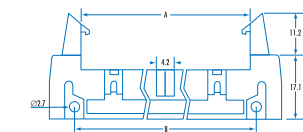


▲ Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
10	PP-1118	\$1.25	\$1.10	\$0.97
16	PP-1122	\$1.45	\$1.30	\$1.15
26	PP-1126	\$1.75	\$1.55	\$1.40
34	PP-1128	\$2.25	\$1.95	\$1.80
50	PP-1132	\$2.95	\$2.60	\$2.30

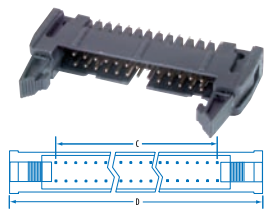
IDC Locking Headers

All headers have gold plated pins.

VERTICAL



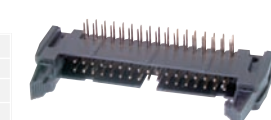
DIMENSIONS (mm)	Pins	A	B	C	D
Cat. PP-1134	10	32	10	22	18
Cat. PP-1138	16	39.5	18	29.5	25.5
Cat. PP-1140	20	45	23	34.5	31
Cat. PP-1142	26	52	30.5	42	38
Cat. PP-1148	50	83	61	73	69



▲ Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
10	PP-1134	\$1.25	\$1.10	\$0.97
16	PP-1138	\$1.65	\$1.45	\$1.30
20	PP-1140	\$1.95	\$1.75	\$1.55
26	PP-1142	\$2.25	\$1.95	\$1.80
50	PP-1148	\$3.75	\$3.30	\$2.95

RIGHT ANGLE

DIMENSIONS (mm)	Pins	A	B	C	D
Cat. PP-1150	10	32	10	22	18
Cat. PP-1154	16	39.5	18	29.5	25.5
Cat. PP-1164	50	83	61	73	69



▲ Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
10	PP-1150	\$1.45	\$1.30	\$1.15
16	PP-1154	\$1.75	\$1.55	\$1.40
50	PP-1164	\$0.95		

Terminal and Connector Bargain Pack - Assorted Types

Every good hobbyist or technician workshop needs a great collection of spare components and odds & ends. Replenish your own collection or kick start the collection of a young enthusiast with our handy bargain packs.

- Contains an assortment of over 60 different in-line and PCB mount connectors, and PCB mount terminals
- Contents worth over three times the price

Note: Pack contents may vary to the one shown



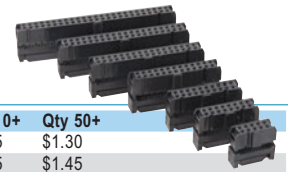
NEW
2017

Limited stock

▲	Cat.	Qty 1+
	XB-9005	\$14.95

IDC LINE SOCKETS

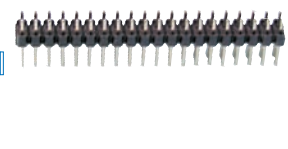
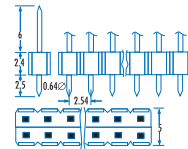
- Insulation displacement connection
- Suits standard pitch ribbon cable
- 3A rated



▲ Pins	Cat.	Qty 1+	Qty 10+	Qty 50+
10	PS-0984	\$1.65	\$1.45	\$1.30
16	PS-0985	\$1.85	\$1.65	\$1.45
20	PS-0986	\$1.95	\$1.75	\$1.55
26	PS-0987	\$2.25	\$1.95	\$1.80
34	PS-0988	\$2.65	\$2.30	\$2.07
40	PS-0989	\$2.95	\$2.60	\$2.30
50	PS-0990	\$3.45	\$3.05	\$2.75

DUAL IN-LINE JUMPERS

- 40 way (2 x 20)
- Snap apart
- 3A rated



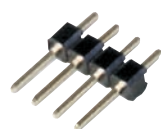
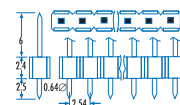
▲ Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
40	HM-3250	\$1.75	\$1.55	\$1.40

HEADER TERMINAL STRIPS 28 & 40 PIN

VERTICAL LAUNCHER - 0.1" / 2.54mm Pitch

For PCBs and PCB mass terminals. Snap apart if you need a small length

- 3A rated



Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
28	HM-3211	\$0.85	\$0.75	\$0.65
40	HM-3212	\$0.95	\$0.85	\$0.75

40 Pin Female Header Strip

Just like the headers on the Duinotech main boards & a great match for the HM-3212 40 pin male header strip. Trimming may be needed to use shorter lengths.

- 3A rated



NEW
2017

▲ Pins	Cat.	Qty 1+	Qty 4+	Qty 10+
40	HM-3230	\$1.80	\$1.60	\$1.40

2 Way Crimp Plug - 2.54mm - Pkt 10

2 way plug commonly used on cordless phone batteries and RC toy Li-Po batteries.

Ratings: Current 3A / Voltage 250V AC/DC

Pitch: 2.54mm

Temperature Rating: -25°C to +85°C

Suitable wire size: 30-22AWG (0.25mm to 0.4mm)



NEW
2017

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Crimp Plugs - Pkt 10	PT-4453	\$2.95	\$2.65	\$2.35

JUMPER SHUNTS

2.54mm spacing. Pkt 10

- 3A rated



▲ Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
10	HM-3240	\$1.85	\$1.65	\$1.45

PCB Pins & Sockets

0.9mm pins and sockets for easy termination of wire on PCB boards.

- Gold flashed
- 5A rated



▲ Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
Pins 50	HP-1250	\$4.50	\$3.95	\$3.60
Sockets 25	HP-1260	\$5.50	\$4.90	\$4.30

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!



TERMINAL BLOCKS & CONNECTORS

WAGO PUSH WIRE Connectors

WAGO 273 Series PUSH WIRE® connector for use in junction boxes suitable for solid conductors. This reliable connector with PUSH WIRE® technology has proven itself as an immediate solution for use with cross-sections up to 4mm². The transparent housing enables the installer to see at a glance whether all the conductors have been fully inserted & properly connected.

• 10A rated

▲ Size	Colour	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	Yellow	HM-3231	\$0.75	\$0.68	\$0.60
3 Way	Red	HM-3232	\$0.90	\$0.81	\$0.72
4 Way	Orange	HM-3233	\$1.65	\$1.45	\$1.30



NEW
2017

WAGO Splice Terminal Blocks

Connect different types of conductors and bridge large differences in cross section with ease! In practical use, this connector can be used for intercom wiring, or to hook-up of an electric stove - fast.

• 10A rated

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	HM-3234	\$1.20	\$1.05	\$0.95
3 Way	HM-3235	\$1.25	\$1.10	\$1.00



NEW
2017

Carrier for Splice Terminal Blocks

An orange mounting carrier suitable for HM-3234 (2 wire) and HM-3235 (3 wire) compact splicing connectors.

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HM-3236	\$1.95	\$1.75	\$1.55



NEW
2017

Plug-In Spring Terminal Blocks

A range of easy-to-use, push-wire terminal blocks that make joining wires a breeze. No tools necessary! Simply insert the stranded or solid wire and it will bite down to hold the wire in place. Rated for high voltage applications but would also suit lower voltage applications like 12V lighting.

• 240V rated

2 WAY - YELLOW Cat. HM-3193

• Suits 0.75 - 2.5mm², 18 - 13AWG.

• 10A rated

3 WAY - RED Cat. HM-3190

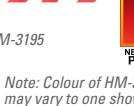
• Suits 1.5 - 6.0mm² solid core cable

• 24A rated

4 WAY Cat. HM-3195

• Suits 0.75 - 2.5mm², 18 - 13AWG

• 10A rated



Note: Colour of HM-3195 may vary to one shown.



NEW
LOW PRICE

▲	Suits	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	0.75 - 2.5mm²	2	HM-3193	\$0.80	\$0.72	\$0.64
4 Way	0.75 - 2.5mm²	2	HM-3195	\$0.85	\$0.86	\$0.76
3 Way	1.5 - 6.0mm²	2	HM-3190	\$1.95	\$1.75	\$1.55

HEADERS/ TERMINAL BLOCKS - PCB MOUNT

PCB Spring Terminal Blocks

These PCB terminal blocks retain the wire securely by a spring type clamp. The wire is held very securely but can be quickly released by depressing a release lever. The wire can be inserted/released indefinitely with virtually no deterioration of the contact/spring assembly. Both 2 & 3 pole are available and the housing of each is dove tailed to stack together and make any number of poles.

• Pitch: 5.0mm

• Housing material: PA66

• Contact/spring assembly: Stainless Steel

• Will accept wires from 22-14AWG

SPECIFICATIONS	BOTH
Current rating	12.0A @ 300VAC
Temperature rating	-40 to +105°C
Power rating	5kV rated / 250VAC Cat III
Dimensions	2-Way: 10(L) x 13(W) x 15(H)mm 3-Way: 15(L) x 13(W) x 15(H)mm



HM-3142

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	HM-3140	\$2.20	\$1.95	\$1.75
3 Way	HM-3142	\$2.90	\$2.60	\$2.30

MONTHLY SPECIALS

Look out for our monthly promotions in store now!

"Jow" Cable Clamp Connectors

Designed to reduce electrical installation time and to increase efficiency. These easy-to-use connectors eliminates the need to strip, twist and crimp connect wires. Simply insert your wire into the clamp opening and snap it shut using your hands or small pliers depending on wire gauge to make the connection. The precision-sharpened connector blades borrows the IDC configuration that cut through the wires create a connection. Available in two shapes - "I" type and "T" type. "I" type are used for end to end connections whereas the "T" type for parallel connections. Ideal for applications such as: low voltage LEDs, residential, automotive, communication and broadcasting.

• Avoid stripping, twisting or crimping cables together eliminates need to tape cables

• Creates an IP33 connection • Electrically Safety approved

• Handles up to 600VAC

• RoHS compliant



SPECIFICATIONS	PT-4640	PT-4641
Suitable for cable between	27-20 (AWG), Cross section (mm²): 0.2-0.5	19-17 (AWG), Cross section (mm²): 0.75
Max current (240VAC)	3A	10A
Connection loss (Ohm)	0.0018	0.0010
Dimensions/Weight	25(L) x 5.5(W) x 5.5(H)mm/0.8g	30(L) x 6(W) x 6(H)mm/1g
SPECIFICATIONS	PT-4643	PT-4650
Suitable for cable between	13-12 (AWG), Cross section (mm²): 2.5	27-20 (AWG), Cross section (mm²): 0.2-0.5
Max current (240VAC)	20A	3A
Connection loss (Ohm)	0.0001	0.0018
Dimensions/Weight	36(L) x 7.7(W) x 7.7(H)mm/2.5g	25(L) x 5.5(W) x 5.5(H)mm/1g
SPECIFICATIONS	PT-4651	PT-4653
Suitable for cable between	19-17 (AWG), Cross section (mm²): 0.75	13-12 (AWG), Cross section (mm²): 2.5
Max current (240VAC)	10A	20A
Connection loss (Ohm)	0.0010	0.0001
Dimensions/Weight	30(L) x 6(W) x 6(H)mm/1.6g	37(L) x 7.7(W) x 7.7(H)mm/3.3g

▲	In-line	I Type	3A	Pack of 6	Cat.	Qty 1+	Qty 4+	Qty 10+
	In-line	I Type	10A	Pack of 4	PT-4640	\$5.95	\$5.35	\$4.75
	In-line	I Type	20A	Pack of 2	PT-4641	\$4.95	\$4.45	\$4.00
	Parallel	T Type	3A	Pack of 6	PT-4643	\$5.95	\$5.35	\$4.75
	Parallel	T Type	10A	Pack of 4	PT-4650	\$6.95	\$6.25	\$5.55
	Parallel	T Type	20A	Pack of 2	PT-4651	\$5.95	\$5.35	\$4.75
	Parallel	T Type	20A	Pack of 2	PT-4653	\$6.95	\$6.25	\$5.55

Ceramic Terminal Blocks

Glazed porcelain terminal blocks are ideal for high temperature situations, such as in lighting. Ask us for competitive bulk prices.

Images not to scale



HM-3182



HM-3183



HM-3185

▲	Current	Voltage	Qty 1+	Qty 4+	Qty 10+
2 Wire Medium	10A 250VAC	HM-3182	\$0.85	\$0.75	\$0.65
3 Wire Small	5A 380VAC	HM-3183	\$1.10	\$1.00	\$0.90
3 Wire Large	30A 250VAC	HM-3185	\$1.50	\$1.35	\$1.20

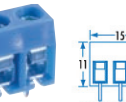
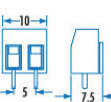
PCB Mount Screw Terminals - 5mm

Ideal for those situations where wires leave a PCB. Just solder the terminal strip to the PCB and connect wires. 2 way (HM-3172) and 3 way (HM-3173) are interlocking, so you can make up whatever size you require using these - see 6 way pictured.

• 8A rated



HM-3172



HM-3173

Join together to make a 6 way

NERD PERKS
2x POINTS

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	HM-3172	\$1.20	\$1.05	\$0.95
3 Way	HM-3173	\$1.55	\$1.35	\$1.20

Weidmüller PCB Mount Screw Terminals - 5.08mm

These are 5.08mm spacing, come in 2 & 3 way, are interlocking & orange in colour.

• 10A rated.



HM-3130



HM-3132

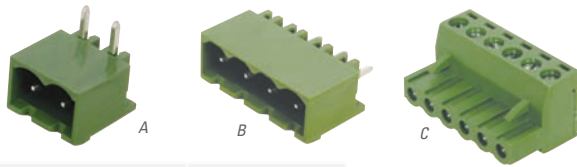
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	HM-3130	\$1.20	\$1.05	\$0.95
3 Way	HM-3132	\$1.55	\$1.35	\$1.20

HEADERS/ TERMINAL BLOCKS - PCB MOUNT (CONTINUED)

5.08mm High Quality Pluggable Terminal Blocks/Headers

Available in both horizontal-plug and vertical-plug versions, these quality headers simply solder to a PC board and are for the Pluggable Terminal Blocks (see below).

- Made from Polyamide66 plastic (UL94V-0) • 1.0mm tin-plated brass solder pins
- Excellent current and insulation characteristics.



SPECIFICATIONS	ALL MODELS
Current rating	12A, 300VAC
Insulation withstands volt	2000VAC min
Insulation resistance	>5000MΩ 500VDC
PCB hole diameter	1.5mm
Pitch	5.08mm (0.200 inch)

The plug version to suit the above headers - these terminal blocks are easily plugged in, and feature nickel-plated brass cage clamps, tin-plated phosphor-bronze contacts, M3 nickel-plated steel screws.

HORIZONTAL PC MOUNT (PIC A)

▲ Poles	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM-3102	\$0.95	\$0.85	\$0.75
3	HM-3103	\$1.65	\$1.45	\$1.30
4	HM-3104	\$1.95	\$1.75	\$1.55
6	HM-3106	\$2.95	\$2.60	\$2.30
8	HM-3108	\$3.95	\$3.45	\$3.15

VERTICAL PC MOUNT PLUGGABLE HEADERS (PIC B)

▲ Poles	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HM-3112	\$0.95	\$0.85	\$0.75
3	HM-3113	\$1.65	\$1.45	\$1.30
4	HM-3114	\$1.95	\$1.75	\$1.55
6	HM-3116	\$2.95	\$2.60	\$2.30
8	HM-3118	\$3.95	\$3.45	\$3.15

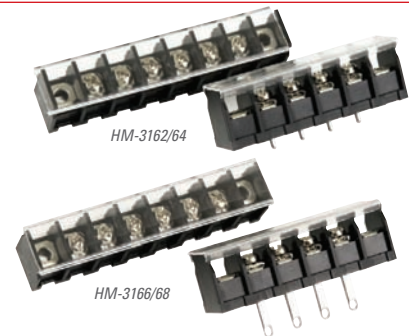
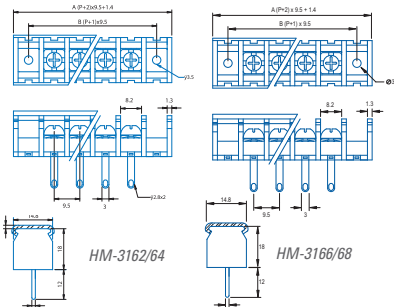
SCREW TERMINAL SOCKETS (PIC C)

▲ Poles	Width(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
2	11.40	HM-3122	\$2.35	\$1.95	\$1.85
3	16.40	HM-3123	\$3.60	\$3.15	\$2.75
4	21.40	HM-3124	\$4.95	\$4.45	\$3.90
6	31.40	HM-3126	\$6.95	\$6.25	\$5.50
8	41.40	HM-3128	\$9.95	\$8.95	\$7.95

TERMINAL BARRIERS

Terminal Barriers - Transparent Covers

SPECIFICATIONS	ALL MODELS
Pitch	9.5mm
Barrier Material	Thermoplastic (UL-94V-0), Black
Terminals	Tin Plated Brass (Standard)
Screws	Nickel Plated Steel
Wire AWG	12-22 STR
Rating	25 Amp, 300VAC
Cover Material	PC
Insulation withstands voltage	AC 2000V/Min
Insulation Resistance	500Mohm or more at 500V



PC MOUNT

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way		HM-3162	\$3.95	\$3.45	\$3.15
6 Way		HM-3164	\$5.50	\$4.90	\$4.30

PANEL MOUNT

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
4 Way		HM-3166	\$3.95	\$3.45	\$3.15
6 Way		HM-3168	\$5.50	\$4.90	\$4.30

Surface Mount Screw Terminal Strips

These units feature the ability to terminate 2 or 3 sets of wires securely with the option of changing or adding connections. In classic barrier strip fashion there is a comprehensive fence between each terminal. Each sturdy block has 2 x 4mm mounting holes at each end and a insulating body with high impact plastic. Two models available.

- 25A rated

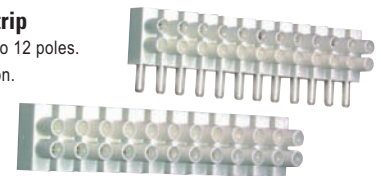


▲		Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way		HM-3167	\$2.95	\$2.60	\$2.30
3 Way		HM-3169	\$3.45	\$3.05	\$2.75

Plug/Socket Terminal Strip

Semi permanent connection up to 12 poles.

- Reliable screw down termination.
- 10A per pole.
- Supplied as a matching pair

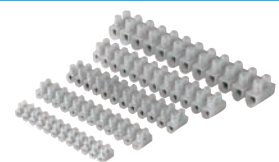


▲		Cat.	Qty 1+	Qty 4+	Qty 10+
		HM-3202	\$12.95	\$11.35	\$10.35

Terminal Strips

Still 12 way and capable of being divided with a sharp knife, however, the screw retention is much sturdier. Each terminal block has a mounting hole on a fixed pitch.

- Material: Polyamide 66 (nylon) / UL94V-2 flame retardant
- Temperature -35°C to 110°C
- Voltage 250-450V
- Colour Natural



Current	Cable Dia	Length	Pitch	Cat	Qty 1+	Qty 4+	Qty 10+
6A	3.3mm	114.5mm	10mm	HM-3194	\$1.75	\$1.55	\$1.40
10A	4.2mm	128.8mm	11mm	HM-3196	\$1.95	\$1.75	\$1.55
15A	4.5mm	136.8mm	12mm	HM-3200	\$2.65	\$2.30	\$2.07

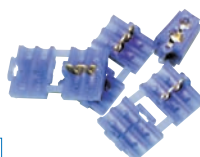
Current	Cable Dia	Length	Pitch	Cat	Qty 1+	Qty 4+	Qty 10+
30A	5.6mm	164.5mm	15mm	HM-3198	\$2.85	\$2.53	\$2.23
60A	6.6mm	193mm	16.3mm	HM-3204	\$4.95	\$4.45	\$3.90

CONTACT & QUICK SPlice CONNECTORS

Contact Connectors

Simply wrap around the existing wire and new wire & squeeze. Connector cuts through insulation and makes contact without damaging the conductor. Fully insulated once on.

- 5A rated



▲ Pack		Cat.	Qty 1+	Qty 4+	Qty 10+
4		HP-1206	\$1.95	\$1.75	\$1.55

Quick Splice Connectors

Simply insert your wires and squeeze it closed to connect and crimp. Quick, easy, and secure. Nylon insulation rated to 105°C

- 5A rated



ID	Type	Pk	Cat.	Qty 1+	Qty 4+	Qty 10+
A	22-18AWG	6	PT-4537	\$2.75	\$2.45	\$2.15
B	16-14AWG	6	PT-4637	\$2.75	\$2.45	\$2.15
C	12-10AWG	6	PT-4737	\$2.75	\$2.45	\$2.15

STANDARD QUICK CONNECTORS

NYLON INJECTION MOULDING

Unlike the majority of quick crimp connectors available on the market, our range of standard quick connectors are made with a nylon injection moulded insulation as opposed to the heat shrunk vinyl insulation most others feature. The injection-moulded nylon insulation is temperature rated to 105°C, and features a moulded funnel taper in the insulation for easy cable entry. MOST BULLET, SPADE LUG & FORK CONNECTORS CAN BE SAFELY RATED FOR 10 AMPS.

Bullets

- Red: Cable entry size 4.3mm
Wire size 0.75 - 1mm dia
- Blue: Cable entry size 4.5mm
Wire size 1.5 - 2.5mm dia.
- Yellow: Cable entry size 6.6mm
Wire size 4 - 6mm dia.



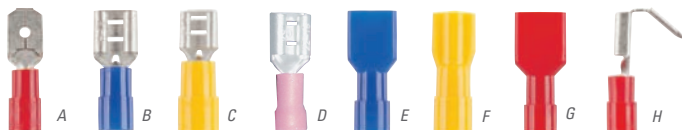
ID Type	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A Male	4	8	PT-4500	\$3.50	\$3.15	\$2.75	50	PT-4501	\$9.95	\$8.75	\$7.75
B Male	4	8	PT-4600	\$3.50	\$3.15	\$2.75	100	PT-4601	\$15.95	\$14.35	\$12.70
C Male	4	8	PT-4700	\$3.75	\$3.30	\$2.95	100	PT-4701	\$18.95	\$16.95	\$14.95
D Female	4	8	PT-4502	\$3.50	\$3.15	\$2.75	50	PT-4503	\$9.95	\$8.75	\$7.75
E Female	4	8	PT-4602	\$3.50	\$3.15	\$2.75	100	PT-4603	\$15.95	\$14.35	\$12.70
F Female	4	8	PT-4702	\$3.75	\$3.30	\$2.95	100	PT-4703	\$18.95	\$16.95	\$14.95

Spades

- Red: Cable entry size 4.3mm
Wire size 0.75 - 1mm dia
- Blue: Cable entry size 4.5mm
Wire size 1.5 - 2.5mm dia.
- Yellow: Cable entry size 6.6mm
Wire size 4 - 6mm dia.



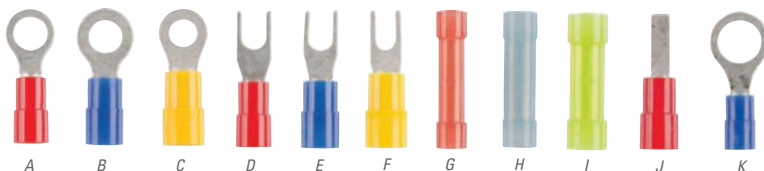
ID Type	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A Male	4.8	8	PT-4518	\$2.75	\$2.45	\$2.15	100	PT-4610	\$14.95	\$13.35	\$11.70
B Male	6.3	8	PT-4609	\$2.75	\$2.45	\$2.15	100	PT-4721	\$17.95	\$15.95	\$14.35
C Female	4.8	8	PT-4722	\$3.45	\$3.05	\$2.75	100	PT-4524	\$13.95	\$12.35	\$10.95
D Female	4.8	8	PT-4522	\$2.75	\$2.45	\$2.15	100	PT-4621	\$14.95	\$13.35	\$11.70
E Female	4.8	8	PT-4622	\$2.75	\$2.45	\$2.15	100	PT-4710	\$17.95	\$15.95	\$14.35
F Female	6.4	8	PT-4709	\$3.45	\$3.05	\$2.75					



ID Type	Size	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A Male	6.4	8	PT-4509	\$2.75	\$2.45	\$2.15	100	PT-4512	\$13.95	\$12.35	\$10.95
B Female	6.4	8	PT-4607	\$2.75	\$2.45	\$2.15	100	PT-4608	\$15.95	\$14.35	\$12.70
C Female	6.8	8	PT-4707	\$2.75	\$2.45	\$2.15	100	PT-4708	\$18.95	\$16.95	\$14.95
D Female	6.8	8	PT-4507	\$2.75	\$2.45	\$2.15	100	PT-4513	\$13.95	\$12.35	\$10.95
E Female	6.4	8	PT-4625	\$2.95	\$2.60	\$2.30	50	PT-4626	\$9.95	\$8.75	\$7.75
F Female	6.8	8	PT-4725	\$3.75	\$3.30	\$2.95	50	PT-4726	\$12.95	\$11.35	\$10.35
G Female	6.8	8	PT-4525	\$2.75	\$2.45	\$2.15	50	PT-4526	\$9.95	\$8.75	\$7.75
H Piggybk	6.4	8	PT-4510	\$2.75	\$2.45	\$2.15	100	PT-4511	\$13.95	\$12.35	\$10.95

Eye, Fork, Butt & Blades

- Red: Cable entry size 4.3mm / Wire size 0.75 - 1mm dia
- Blue: Cable entry size 4.5mm / Wire size 1.5 - 2.5mm dia
- Yellow: Cable entry size 6.6mm / Wire size 4 - 6mm dia.



ID	Type	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Eye	8	PT-4514	\$2.75	\$2.45	\$2.15	100	PT-4515	\$13.95	\$12.35	\$10.95
B	Eye	8	PT-4614	\$2.75	\$2.45	\$2.15	100	PT-4615	\$14.95	\$13.35	\$11.70
C	Eye	8	PT-4714	\$3.75	\$3.30	\$2.95	100	PT-4715	\$17.95	\$15.95	\$14.35
D	Fork	8	PT-4523	\$2.75	\$2.45	\$2.15	100	PT-4529	\$13.95	\$12.35	\$10.95
E	Fork	8	PT-4623	\$2.75	\$2.45	\$2.15	100	PT-4624	\$14.95	\$13.35	\$11.70
F	Fork	8	PT-4723	\$3.75	\$3.30	\$2.95	100	PT-4724	\$17.95	\$15.95	\$14.35
G	Butt	8	PT-4527	\$2.75	\$2.45	\$2.15	100	PT-4528	\$13.95	\$12.35	\$10.95
H	Butt	8	PT-4627	\$2.75	\$2.45	\$2.15	100	PT-4628	\$14.95	\$13.35	\$11.70
I	Butt	8	PT-4727	\$3.75	\$3.30	\$2.95	100	PT-4728	\$17.95	\$15.95	\$14.35
J	Blade	8	PT-4516	\$2.75	\$2.45	\$2.15	100	PT-4517	\$13.95	\$12.35	\$10.95
K	Eye	8	PT-4618	\$2.75	\$2.45	\$2.15	8	PT-4718	\$3.75	\$3.30	\$2.95

Large Spade Quick Connectors

- Spade socket
 - 9.5mm
 - Pack of 4
- Suits 60A horn relay SY-4074



▲ Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
4	PT-4717	\$3.95	\$3.45	\$3.15

Ferrule Crimp Connectors



ID	Pk	Size	Cat.	Qty 1+	Qty 4+	Qty 10+
A	20	0.75mm ²	PT-4433	\$2.95	\$2.60	\$2.30
B	20	1.50mm ²	PT-4533	\$2.95	\$2.60	\$2.30
C	20	2.5mm ²	PT-4633	\$2.95	\$2.60	\$2.30

Quick Connect Pack

A box of all the standard 1/4" (6.35mm) QC tabs and receptacles, but also the odd QC sizes ie: 3.2mm and 4.8mm sizes.

Total 160 pieces.



Includes the following:

- 10 x 6.4mm female crimp spade lugs wire dia 1.8mm
- 10 x 6.4mm female crimp spade lugs wire dia 3.5mm
- 10 x Close end wire crimpers - dia 2.6mm
- 10 x Close end wire crimpers - dia 3.8mm
- 5 x Contact wire connectors
- 10 x Female bullet connectors - insulated
- 10 x Male bullet connectors - insulated
- 5 x 3 way spade lug connectors 6.8mm
- 5 x spade piggyback connectors 6.8mm
- 10 x 4.9mm female spade lugs
- 10 x 8.4mm hole dia ring terminals
- 10 x 5.7mm hole dia ring terminals
- 10 x 5.3mm hole dia spade terminals
- 10 x 4.3mm hole dia spade terminals
- 5 x 3.5mm dia butt connectors
- 5 x 2.3mm dia butt connectors
- 5 x 1.8mm dia butt connectors
- 10 x 3.3mm spade connectors (tweeter connectors)
- Beware of others with less than 160 pieces.

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PT-4530	\$22.95	\$20.35	\$18.35

DON'T FORGET A CRIMP TOOL

FROM
\$8.95
TH-1828



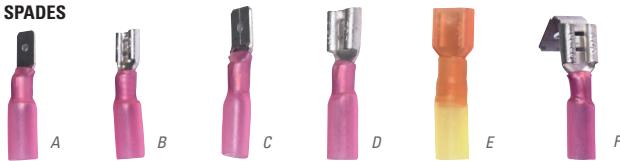
CRIMPING TOOLS

P210

SELF SEALING QUICK CONNECTORS

The unique heat sensitive sealing gel in these quick connectors will automatically flood the crimp joint with sealant as the heatshrink sleeve is heated.

SPADES



ID	Type	Size	Pkt	DC Current	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Male	4.8mm	8	5A	PT-4818	\$5.95	\$5.25	\$4.75
B	Female	4.8mm	8	5A	PT-4822	\$5.95	\$5.25	\$4.75
C	Male	6.4mm	8	10A	PT-4809	\$5.95	\$5.25	\$4.75
D	Female	6.4mm	8	10A	PT-4807	\$5.95	\$5.25	\$4.75
E	Female Ins.	6.4mm	8	10A	PT-4825	\$6.95	\$6.25	\$5.50
F	Piggyback	6.4mm	8	10A	PT-4810	\$6.95	\$6.25	\$5.50

The resulting crimp connection is water and corrosion resistant and has good strain relief properties. 11 styles to choose from.

EYE, FORK, BUTT & BULLETS



ID	Type	Size	Pkt	DC Current	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Eye	5.3(ID)/8.0(OD)	8	5A	PT-4814	\$5.95	\$5.25	\$4.75
B	Fork	3.7(ID)/5.7(OD)	8	3A	PT-4823	\$5.95	\$5.25	\$4.75
C	Butt	4.7	8	5A	PT-4827	\$6.95	\$6.25	\$5.50
D	Male	4	8	5A	PT-4800	\$5.95	\$5.25	\$4.75
E	Female	4	8	5A	PT-4802	\$6.95	\$6.25	\$5.50

EYE TERMINALS

Non-Insulated Eye Terminals

A range of non-insulated eye terminals for a variety of electronic or automotive applications.



See website for specifications

ID	Hole	Cable Entry	Pk	DC Current	Cat.	Qty 1+	Qty 4+	Qty 10+
A	4mm	2.5mm ²	8	20A	PT-4930	\$2.75	\$2.45	\$2.15
B	6mm	4mm ²	8	30A	PT-4932	\$2.75	\$2.45	\$2.15
C	6mm	6mm ²	8	35A	PT-4934	\$2.75	\$2.45	\$2.15
D	8mm	6mm ²	8	35A	PT-4935	\$2.75	\$2.45	\$2.15
E	8mm	10mm ²	8	40A	PT-4936	\$3.45	\$3.05	\$2.75
F	8mm	25mm ²	4	50A	PT-4937	\$3.95	\$3.45	\$3.15
G	8mm	35mm ²	4	60A	PT-4938	\$5.95	\$5.25	\$4.75
H	8mm	50mm ²	2	100A	PT-4939	\$4.95	\$4.45	\$3.90
I	10mm	35mm ²	2	120A NEW	PT-4940	\$6.95	\$6.25	\$5.55

CABLE CONNECTORS

Crimp Wire Connectors

The easy way to connect 2 or 3 wires together. Simply insert into the connector, & squeeze with a pair of pliers. They are filled with sealant to provide moisture resistance. Accepts cable up to 1.08mm OD.

• 5A rating



▲	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
(6 x 2 wire) & (2 x 3 wire)	8	HP-1214	\$4.95	\$4.45	\$3.90
2 Wire	50	HP-1270	\$10.95	\$9.75	\$8.75
3 Wire	50	HP-1272	\$14.95	\$13.35	\$11.70

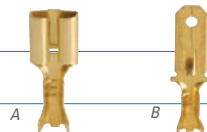
OPEN A STORE ACCOUNT WITH US

Jaycar accepts account applications from all established companies who can exhibit good trade references. For application details see our Store Managers.

CRIMP CONNECTORS

Non-Insulated Spade Connectors

More Crimping Tools on pages 210



ID	Type	Size	Pk	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
A	Socket	6.3mm	10	10A	PT-4630	\$2.75	\$2.45	\$2.15
B	Plug	6.3mm	10	10A	PT-4631	\$2.75	\$2.45	\$2.15

6.3mm PCB Mount PCB Spade Connectors

Commonly used to connect power to a PCB board. They work perfectly with 6.3mm female spade connectors.

- PCB tag: 6.3mm
- Pitch: 5mm
- Current rating: 30A
- Thickness: 0.81mm



▲	Size	Pk	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
	PCB Mount 6.3mm	8	10A	PT-4914	\$2.65	\$2.35	\$2.10

6.3mm Chassis Mount Double Spade

Pack of 8 pieces of 6.3mm chassis mount double spade connectors.

- Double Ended 6.3mm
- Chassis Mounting Hole: 4(Dia.)mm



▲	Size	Pk	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
	Chassis 6.3mm	8	10A	PT-4916	\$2.65	\$2.35	\$2.10

Phone Type Crimp Lugs

Brass Spade width - 3.2mm

- Cable entry 2.5mm



▲	Pkt	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
	15	3A	PT-4520	\$2.95	\$2.60	\$2.30
	100	3A	PT-4521	\$12.95	\$11.35	\$10.35

CRIMP CONNECTOR PACKS

Automotive Crimp Tool with 80 Connectors

The tool will cut & strip wire, crimp connectors and also cut a range of metric bolts.



- 8 each of male & female blue bullets
- 8 each of male & female blue spades
- 8 x red eye connectors
- 8 each of male & female red bullets
- 8 each of male & female red spades
- 8 x blue butt joiners

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1848	\$14.95	\$13.45	\$11.95

300 Piece QC Crimp Connector Pack

Contains 300pcs of only the most commonly-used quick connectors from our range of separately sold QC connectors. Insulation is injection-moulded Nylon rated to 105°C, with a moulded funnel taper in the insulation for easy cable entry. Beware of other QC connector packs that contain cheap vinyl connectors. Pack contains (300pcs in total):

RED - FOR 0.75 - 1.0MM CABLE
 20 x female/20 x male bullet
 20 x 4mm/20 x 5mm ring
 20 x 4mm fork/25 x female spade
 25 x male spade/10 x cable joiner

YELLOW - FOR 4-6MM CABLE
 5 x 5mm/5 x 6mm ring
 5 x cable joiner

BLUE - FOR 1.5 - 2.5MM CABLE
 15 x female/20 x male bullet
 20 x 4mm/10 x 6mm ring
 25 x female/25 x male spade
 10 x cable joiner



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PT-4536	\$39.95	\$35.95	\$31.95

HIGH CURRENT CONNECTORS

Used widely in both domestic & industry, you'll find these used in many 4WD, boating, automotive and other industry applications.

Supplied individually with a pair of contacts, all 5 current ratings have an operating temperature of -20° to +120°C.

Individual Nesting Connectors

They are genderless which means that there is no separate plug and socket and can be easily stacked to make custom configurations. Supplied as a red & black pair with contacts.

See page 210 for our Anderson Crimping Tool.

SPECIFICATIONS	PT-4402	PT-4405	PT-4406	PT-4407
Contact Rating	15A	30A	45A	75A
Voltage	600V (AC or DC)	600V (AC or DC)	600V (AC or DC)	600V (AC or DC)
Contact Wire Size	0.52-1.3mm ² (20-16AWG)	1.63-2.59mm (10-14AWG) closed barrel	1.63-2.59mm (10-14AWG) open barrel	1.3mm - 13mm (#6 - #16AWG)
Max Wire Insulation Dia	2.54mm	4.4mm	4.4mm	1.3 - 13.3mm
Contact Retention Force	9kgs (20lbs)	9kgs (20lbs)	9kgs (20lbs)	22kgs (50lbs)
Operating Temperature	-20 to +105°C	-40 to +125°C	-40 to +125°C	-40 to +125°C

	Cat.	Qty 1+	Qty 10+	Qty 50+
▲ 15A	PT-4402	\$3.95	\$3.55	\$3.15
30A	PT-4405	\$4.95	\$4.45	\$3.90
45A	PT-4406	\$4.95	\$4.45	\$3.90
75A	PT-4407	\$11.95	\$10.45	\$9.45

Anderson 35A SBS Mini Connectors

These compact mini connectors can handle up to 600V continuous in AC or DC with current up to 35A. The mechanical & colour coded keys protect against accidental cross mating of connectors. The genderless housing makes for easy assembly and the touchsafe housing prevents accidental exposure to live circuits and these also have the ability to disconnect under load. Supplied as a moulded 2 pole with contacts.

• All colours have the same electrical rating

SPECIFICATIONS	PT-4480	PT-4482	PT-4484
Housing Colour	Black	Red	Grey
Contact Rating	35A	35A	35A
Contact Wire Size		10 AWG	
Voltage Rating		600 (AC or DC)	
Max Wire Insulation		4.0mm ²	
Operating Temp.		-20°C to 105°C	
Anderson Part No	B02265G2	B02265G1	B02265G4

	Cat.	Qty 1+	Qty 10+	Qty 50+
▲ Black	PT-4480	\$7.95	\$7.15	\$6.25
Red	PT-4482	\$7.95	\$7.15	\$6.25
Grey	PT-4484	\$7.95	\$7.15	\$6.25

Anderson Powerpole Series 4 Pin Data Connector

A genderless 4 pole signal Anderson connector in a PP15 casing. The design allows you to stack this with the PP15 series 15A Anderson connector (PT-4402) for DC and signal wiring connectivity. It provides a secure quick disconnect for power and signal distribution systems.

- Voltage: 300V
- Up to 24 gauge for signal wire connectivity.
- Dimensions: 25(L) x 8(W) x 8(H)mm



	Rating	Cat.	Qty 1+
▲ Stackable	7A	PT-4403	\$14.95

Anderson Connectors - Plug & Socket

These little connectors can handle up to 600 volts continuous in AC or DC with maximum current of 10A. The green housing provides a visual indication of the ground terminal. Suitable for use in numerous applications from automotive to aviation. They will fit wire size from 14-16 AWG (2.1 to 1.3 mm²). Supplied as plug and socket pair.

- Plug: 27.5(H) x 8(L) x 8(W)mm / Socket: 24.5(H) x 8(L) x 8(W)mm

	Cat.	Qty 1+	Qty 10+	Qty 50+
▲ 10A	PT-4416	\$6.95	\$6.25	\$5.55

4 Way 15A Anderson Connectors

These are the high impact and corrosion-resistant black thermoplastic outer shells with a 4 way 15A Anderson® multi-connectors. They allow easy connection and disconnection for the electrical equipment in commercial and industrial applications. The cable clamps provides strain relief and integral latches to prevent any accidental disconnections of your equipment. The positive latching provides security in applications where shock or vibration may be severe and the integral strain relief to reduce the risk of wire breakage.

4 WAY 15A - PT-4434

- Dimensions: 53(L) x 32(W) x 22(H)mm

4 WAY 15A WITH LATCH - PT-4436

- Dimensions: 53(L) x 32(W) x 22(H)mm

	Cat.	Qty 1+	Qty 10+	Qty 50+
▲ 4 Way	PT-4434	\$12.95	\$11.35	\$10.35
4 Way with Latch	PT-4436	\$12.95	\$11.35	\$10.35

Anderson 50A High Current Connectors

Used widely in both domestic and industry, you'll find this connector in many 4WD applications, boating, automotive and other industries. Supplied as a moulded 2 pole with contacts

SPECIFICATIONS	PT-4425	PT-4427	PT-4420
Contact Rating	50A	50A	50A
Contact Wire Size	#8 AWG	#12-10 AWG	13.3mm ² (#6 AWG)
Voltage Rating	600V (AC or DC)	600V (AC or DC)	600V (AC or DC)
Max Wire Insulation Dia.	11mm	11mm	11mm
Contact Retention Force	22kg	22kg	22kg
Operating Temperature	-20 to +105°C	-20 to 105°C	-20 to +120°C
Anderson Part No.			SB50-6319

▲ Cable AWG	Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
8	50A	PT-4425	\$9.95	\$8.95	\$7.95
12-10	50A	PT-4427	\$9.95	\$8.95	\$7.95
6	50A	PT-4420	\$9.95	\$8.95	\$7.95

Moulded Pair

Used widely in both domestic and industry, you'll find this connector in many 4WD applications, boating, automotive and other industries. Supplied as a moulded 2 pole with contacts.

SPECIFICATIONS	PT-4422	PT-4424
Contact Rating	120A	175A
Contact Wire Size	3.6mm ² (#2 AWG)	53.5mm ² (#1/0 AWG)
Voltage Rating	600V (AC or DC)	600V (AC or DC)
Max Wire Insulation Diameter	14.6mm	19mm
Contact Retention Force	45.5kg (100lbs)	137kg (300lbs)
Operating Temperature	-20 to +125°C	-20 to +125°C
Anderson Part No.	B120-6800G1	SB175-6325G1

▲ Cable AWG	Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
2	120A	PT-4422	\$19.95	\$17.95	\$15.95
1/0	175A	PT-4424	\$29.95	\$26.95	\$23.95

Dust/Water Resistant Rubber Covers

A water and dust resistant rubber cover to suit our Anderson style connectors.

▲ Suits		Cat.	Qty 1+	Qty 10+	Qty 50+
PT-4420/25/27	50A	PM-4434	\$7.95	\$7.15	\$6.35
PT-4422	120A	PM-4432	\$14.95	\$13.45	\$11.95
PT-4424	175A	PM-4430	\$17.95	\$15.95	\$13.95

Handles for Anderson Style Connectors

Facilitates easy connection/ disconnection. Ensures a secure grip, even with gloved hands for easier charging of electric forklifts etc.

Suits Anderson Style Connectors

50A	Cat. PT-4420	Cat PM-4436
120A	Cat. PT-4422	Cat PM-4438
175A	Cat. PT-4424	Cat PM-4439

▲ Suits	Cat.	Qty 1+	Qty 10+	Qty 50+
PT-4420/25/27	PM-4436	\$5.95	\$5.35	\$4.75
PT-4422	PM-4438	\$7.95	\$7.15	\$6.35
PT-4424	PM-4439	\$11.95	\$10.45	\$9.45

HIGH CURRENT CONNECTORS & ACCESSORIES (CONTINUED)

This new range enables you to chassis or panel mount Anderson plugs. Something you have not been able to do in the past. There are also waterproofing boots, etc.

50A Chassis Mount Anderson Adaptors

Black 50 amp cover assembly with locking device and UV insulated protection to suit Anderson & Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe & reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover
- Heavy duty PA nylon construction



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT-4460	\$19.95	\$17.70	\$15.70

175A Chassis Mount Anderson Adaptors

Black 175 amp cover assembly with locking device and UV insulated protection to suit Anderson and Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover
- Heavy duty PA nylon construction



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT-4464	\$27.95	\$24.95	\$22.35

50 Amp Connector Cover Assembly Quickfit

Anderson type quick fit connector cover. Suits charging systems for caravans, trailers, solar, marine, industrial.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT-4466	\$25.95	\$23.35	\$20.70

50A Red Chassis Mount Anderson Adaptors

Red 50 amp cover assembly with locking device and UV insulated protection to suit Anderson and Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT-4470	\$19.95	\$17.70	\$15.70

Panel Mount Anderson Connector

Flush mount Anderson type quick fit connector cover. Suits charging systems for caravans, trailers, solar, marine, industrial.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT-4472	\$24.95	\$22.45	\$19.95

Dustproof Rubber Boot for 50A Anderson Mounts

Rubber sleeve for water, dust and UV protection of Anderson style connectors.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	PT-4474	\$3.95	\$3.50	\$3.15

Waterproof Anderson Connectors

These soft shell boots provide water, dirt, chemical and UV protection for the high current Anderson connectors. The durable boots shield the connectors from water and dirt to IP64 when connected or by itself when the integral cover is used. The terminals of the rubber boot can also be customised to fit cables in-between 12-6 AWG (4-16mm²) wires.

- IP64 protection
- Resistant to UV, Roadway Chemical and Ozone
- Splash resistant when connected and by itself when the integral cover is used
- Customise boot terminals to fit your cables from 12-6 AWG which is 4-16mm²
- Mountable

Dimensions when connected: 151(H) x 55(W) x 160(L)mm

50A LOAD RUBBER BOOT

- 85(H) x 55(L) x 20(W)mm Cat PT-4428

50A SOURCE RUBBER BOOT

- 85(H) x 55(L) x 20(W)mm Cat PT-4429

120A BOOT LOAD SIDE

- 112(H) x 57(L) x 39(W)mm Cat PT-4431

120A BOOT SOURCE SIDE

- 118(H) x 59(L) x 39(W)mm Cat PT-4432

175A BOOT LOAD SIDE

- 135(H) x 77(L) x 42(W)mm Cat PT-4438

175A BOOT SOURCE SIDE

- 135(H) x 68(L) x 42(W)mm Cat PT-4439



For heavy current cable suitable for these connectors, See page 161

▲	Cat.	Qty 1+	Qty 10+	Qty 50+	
	Boots to Suit 50A Male	PT-4428	\$15.95	\$14.35	\$12.75
	Boots to Suit 50A Female	PT-4429	\$16.95	\$15.25	\$13.55
	Boots to Suit 120A Male	PT-4431	\$24.95	\$22.45	\$19.95
	Boots to Suit 120A Female	PT-4432	\$24.95	\$22.45	\$19.95
	Boots to Suit 175A Male	PT-4438	\$24.95	\$22.45	\$19.95
	Boots to Suit 175A Female	PT-4439	\$29.95	\$26.95	\$23.95

50A Anderson Plug to Insulated Battery Clamps

Tough insulated battery clamps connected to an Anderson plug. Ideal for connecting a solar panel, portable fridge, compressor, or inverter to a battery.

- 8 AWG cable / 50A rated
- Insulated battery clamps
- Length: 300mm



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PT-4449	\$24.95	\$22.45	\$19.95

High Current 60A Leads

A series of high current connector leads for automotive, caravan, 4WD or industrial interconnection. The design of the Anderson connector housing is genderless, whereby each connector simply interconnects with another so you can't plug them in the wrong way - one less thing to worry about! Each lead is pre-made with machine crimped terminations, and tinned copper cable. Connectors are rated at 50Amps, with either 8AWG cable or 16AWG cable fitted depending on the model.



Six versions available:

50A Plug Extension Lead, 8AWG 5m

50A Piggyback lead, 8AWG, 300mm

50A Eye Terminal Lead, 8AWG, 300mm

50A to 15A Cigarette Plug Lead, 16AWG, 300mm

Anderson 50A to 15A Cigarette Socket lead, 16AWG, 300mm

Anderson 50A to 2 x 15A Cigarette Socket lead, 16AWG, 300mm **NEW**

PT-4440

PT-4442

PT-4444

PT-4446

PT-4448

PT-4447

▲	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug Extension Lead - 5m	PT-4440	\$79.95	\$71.95	\$63.95
Piggyback Lead	PT-4442	\$34.95	\$31.45	\$27.90
Eye Terminal Lead	PT-4444	\$14.95	\$13.45	\$11.95
Cigarette Plug Lead	PT-4446	\$16.95	\$14.95	\$13.35
Cigarette Socket Lead	PT-4448	\$16.95	\$14.95	\$13.35
2 x Cigarette Socket Lead NEW	PT-4447	\$24.95	\$22.45	\$19.95

DC PLUGS, SOCKETS & ADAPTORS

Line Plugs

LINE - FEMALE PLASTIC



▲ 9.5mm Shaft Length	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
0.7(ID) x 2.5(OD)mm	1.0A	PP-0503	\$1.95	\$1.75	\$1.55
1.0(ID) x 3.8(OD)mm	1.5A	PP-0504	\$1.95	\$1.75	\$1.55
1.3(ID) x 3.5(OD)mm	1.8A	PP-0506	\$1.95	\$1.75	\$1.55
1.6(ID) x 5.2(OD)mm	2.0A	PP-0508	\$1.95	\$1.75	\$1.55
1.7(ID) x 4.0(OD)mm	2.5A	PP-0507	\$1.95	\$1.75	\$1.55
1.7(ID) x 4.75(OD)mm	2.5A	PP-0505	\$1.95	\$1.75	\$1.55
2.1(ID) x 5.5(OD)mm	3.0A	PP-0510	\$1.95	\$1.75	\$1.55
▲ 10mm Shaft Length		Cat.	Qty 1+	Qty 10+	Qty 50+
2.5(ID) x 5.5(OD)mm	5.0A	PP-0511	\$1.95	\$1.75	\$1.55
3.1(ID) x 6.3(OD)mm	6.0A	PP-0513	\$1.95	\$1.75	\$1.55
▲ 14mm Shaft Length		Cat.	Qty 1+	Qty 10+	Qty 50+
2.1(ID) x 5.5(OD)mm	3.0A	PP-0509	\$1.95	\$1.75	\$1.55
2.5(ID) x 5.5(OD)mm	5.0A	PP-0512	\$1.95	\$1.75	\$1.55
▲ Right Angle 9.5mm Shaft Length		Cat.	Qty 1+	Qty 10+	Qty 50+
2.1(ID) x 5.5(OD)mm	3.1A	PP-0514	\$2.65	\$2.30	\$2.07
▲ Right Angle - 14mm Shaft Length		Cat.	Qty 1+	Qty 10+	Qty 50+
2.5(ID) x 5.5(OD)mm	5.0A	PP-0515	\$2.65	\$2.30	\$2.07

LINE - FEMALE METAL BODY

9.5mm shaft.



▲ Type	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1(ID) x 5.5(OD)mm	3A	PP-0531	\$3.75	\$3.30	\$2.95
2.5(ID) x 5.5(OD)mm	5A	PP-0532	\$3.75	\$3.30	\$2.95

2.1mm DC Connectors

• 3.0A rated



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug - Screw Terminals	PA-3711	\$4.95	\$4.45	\$3.95
Socket - Screw Terminals	PA-3713	\$4.95	\$4.45	\$3.95

Illuminated Polarity Sensing DC Connectors

These detect and indicate the polarity of your power connections with integrated LEDs. The LED lights up blue for centre positive, red for centre negative or purple for AC voltage. They also shine brighter as voltage increases.

- 5-30 VAC/VDC range
- 1 metre lead length.
- 3.0A rated



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Inline Plug	WQ-7288	\$6.95	\$6.25	\$5.90
Inline Socket	WQ-7289	\$7.95	\$6.95	\$6.75

Waterproof 2.1mm DC Connectors with Pigtail Leads

The same connector set fitted to our waterproof LED strip lights with standard 2.1(ID) x 5.5(OD)mm DC connection with an IP67 rated coupling. Supplied pre-fitted to a 100mm pigtail lead, allowing you to make up your own lead sets.

- Cables are 20AWG
- 3A max at 12VDC



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
Waterproof	PS-0785	\$7.95	\$7.15	\$6.25

Line Sockets

LINE - MALE

Plastic body



▲ Type	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm	3.0A	PS-0526	\$3.45	\$3.05	\$2.75
2.5mm	5.0A	PS-0528	\$3.45	\$3.05	\$2.75
1.0mm - Suits Nokia	500mA	PS-0540	\$2.45	\$2.15	\$1.95

Line Sockets

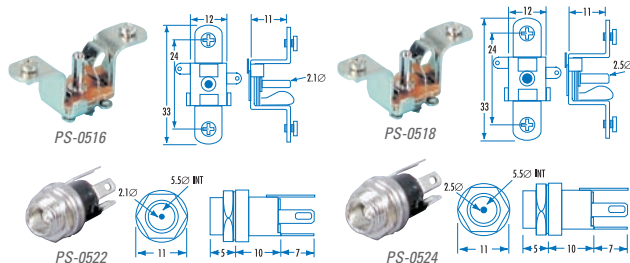
LINE - MALE

Metal Body



▲ Type	Current	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm	3.0A	PS-0534	\$3.95	\$3.45	\$3.15
2.5mm	5.0A	PS-0536	\$3.95	\$3.45	\$3.15

Chassis Mount



▲ Type	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm Chassis	3.0A	PS-0516	\$1.95	\$1.75	\$1.55
2.5mm Chassis	5.0A	PS-0518	\$1.95	\$1.75	\$1.55
2.1mm Bulkhead	3.0A	PS-0522	\$2.95	\$2.60	\$2.30
2.5mm Bulkhead	5.0A	PS-0524	\$2.95	\$2.60	\$2.30

Surface Mount Male DC Power Connectors



SPST contacts



NEW 2017

▲ Type	Current (DC)	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm NEW	3.0A	PS-0519	\$1.95	\$1.75	\$1.55
2.5mm	5.0A	PS-0520	\$1.95	\$1.75	\$1.55

0.7mm PCB Mount DC Socket with SPST Slide Switch

- Snap-in, PCB mounted 0.7mm DC power socket
- SPST black On/Off slide switch.
- Electrical rating: 2A @ 15VDC
- Contact resistance: <30m ohm (max)
- Insulation resistance: 100M ohm (min)
- Electrical life: 30,000 cycles
- Dimensions: 15(L) x 10(W) x 14.6(D)mm



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
0.7mm PCB	PS-0532	\$5.95	\$5.50	\$4.75

2.1mm PCB Mount DC Socket with SPST Rocker Switch

- Snap-in, PCB mounted DC power socket with rocker switch.
- Electrical rating: 3.0A @ 15VDC
- Contact resistance: <20m ohm (initial)
- Insulation resistance: 1000M ohm (500VDC between open contacts)
- Dielectric strength: >1500V 1 minute
- Electrical life: 6,000 cycles
- Overall dimensions: 24.5(L) x 9.0(W) x 14.1(D)mm



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm PCB	PS-0531	\$5.95	\$5.50	\$4.75

DC Power Adaptors

• All 3.0A rated



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2.1mm to 2.1mm Plug	PA-3707	\$2.95	\$2.60	\$2.30
2.1mm to 2.1mm Socket	PA-3701	\$3.45	\$3.05	\$2.75

DC Power Adaptors

• All 1A rated



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
1.3mm DC Plug to 2.5mm DC Socket	PA-3700	\$2.95	\$2.60	\$2.30
1.3mm DC Plug to 2.1mm DC Socket	PA-3702	\$2.95	\$2.60	\$2.30
2.1mm DC Plug to 2.5mm DC Socket	PA-3704	\$2.95	\$2.60	\$2.30
2.5mm DC Plug to 2.1mm DC Socket	PA-3706	\$2.95	\$2.60	\$2.30

HARSH ENVIRONMENT

IP67 Rated Multiple Pole Harsh Environment Connectors

C16-1 series connectors offer 3 or 6 pole with pre-engaging earth contact. The mating parts screw together securely to provide environmental protection to IP67.



PP-1000



PS-1001



PP-1006



PS-1007



PS-1009



PP-1004

SPECIFICATIONS	3 POLE + PE*	6 POLE + PE*
Current rating	16A	10A
Voltage rating	380VAC 450VDC	380VAC 450VDC
Insulation resistance	>10Gohms	>10Gohms
Contact resistance	<5mohms	<5mohms
Max wire size	2.5mm ²	0.75mm ²

ENVIRONMENTAL	ALL MODELS
Temperature range	-40°C to +100°C
Protection	IP67 to IEC60529/ DIN40050
Housing	Polyamide 66 Nylon
Strain relief	Screw clamp & Gland Nut

Note:
*Means Pre-Engaging



HIRSCHMANN

6 POLE

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
PE Line Plug	PP-1000	\$19.95	\$17.95	\$15.95
PE Line Socket	PS-1001	\$19.95	\$17.95	\$15.95
PE Chassis Plug	PP-1002	\$13.95	\$12.35	\$10.95
PE Chassis Socket	PS-1003	\$13.95	\$12.35	\$10.95

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug Dust Cap	PP-1004	\$9.95	\$8.75	\$7.75

3 POLE

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
PE Line Plug	PP-1006	\$17.95	\$15.95	\$14.35
PE Line Socket	PS-1007	\$17.95	\$15.95	\$14.35
PE Chassis Plug	PP-1008	\$12.95	\$11.35	\$10.35
PE Chassis Socket	PS-1009	\$12.95	\$11.35	\$10.35

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Socket Dust Cap	PS-1005	\$9.95	\$8.75	\$7.75

LTW IP67 Harsh Environment Circular Connectors

Perfect for harsh environments such as marine, industrial, outdoor, automotive, etc.

- IP67 rated
- Locking bayonet connection
- Gold plated
- UL rated
- Wide temperature: -40°C to 105°C
- Solder pins
- 2pin versions rated to 5A
- 4 & 6 pin versions rated to 2A



PP-0541



PP-0544



PP-0542



PS-0545



PS-0543



PS-0547

LTW



Type	Cat.	Qty 1+	Qty 10+	Qty 50+
2 Pin Line Socket	PS-0541	\$14.95	\$13.45	\$11.95
2 Pin Panel Mount Plug	PP-0542	\$8.95	\$7.95	\$6.95
4 Pin Line Socket	PS-0543	\$19.95	\$17.95	\$15.95

Type	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Pin Panel Mount Plug	PP-0544	\$10.95	\$9.75	\$8.75
6 Pin Line Socket	PS-0545	\$15.95	\$14.35	\$12.75
Dust Cap to suit PP-0544	PS-0547	\$6.95	\$6.25	\$5.50

M8 CIRCULAR

Commonly used in process control instrumentation. All connectors are field installable.

- 3A rated



PP-4300



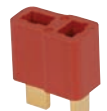
PS-4301

Type	Cat.	Qty 1+
3 Way Plug	PP-4300	\$4.95
4 Way Plug	PP-4302	\$4.95
3 Way Socket	PS-4301	\$4.95
4 Way Socket	PS-4303	\$4.95

DEANS & BULLET STYLE

60A 2 Pole Gold Plated Connector Set

These are the industry standard in high performance connectors. Rated number one by RC Car Action, the world's leading RC car racing magazine. These connectors offer considerably less resistance than their competitors and are rated at 60 amps. Supplied as a pair.



Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
60A Pair	PT-4450	\$3.95	\$3.45	\$3.15

EC3 Bullet Connectors

Polarity sensitive EC3 bullet style plug and socket. Commonly used to connect Li-Po batteries to RC motors.

- Solder type. 1 plug and socket per packet.



Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
40A	PT-4456	\$4.95	\$4.45	\$4.00

EC5 Bullet Connectors - Plug & Socket

Essentially 5mm banana connectors in a case capable of up to 120 continuous amp with 10 awg wire. The popularity of this connector has grown as it is now widely used on RC & portable power products.

- Sold as a pair of plug & socket.



Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
40A	PT-4454	\$4.95	\$4.45	\$4.00

XT60 2 Way Bullet Connectors

Made from high temperature nylon with gold plated terminals. Ensures a solid high current connection that will handle 65 amps constant.

- Solder type. One plug & socket per packet.

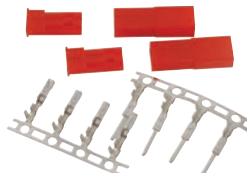


Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
65A	PT-4458	\$4.95	\$4.45	\$4.00

JST CRIMP

JST Crimp Connectors 2 Way

JST type crimp connectors for hobby use. Extensively used on batteries and other connectors in RC hobbies and models. Sold as a pair of 2 mating M/F connectors. Suitable for cable up to 1.3mm OD.



Cat.	Qty 1+	Qty 10+	Qty 50+
PT-4452	\$4.95	\$4.45	\$3.90

Looking for Cigarette Lighter Plugs & Sockets?

See page 455 for our full range

INDEX - CABLE & HARDWARE

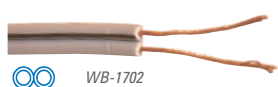
AC Mains Cable	162	Coaxial Cable	159	Hookup Wire	163
Alarm Cable	160	Data Cable	160	Microphone Cable	159
Audio & Video Cable	158	DC Power Cable	161	Screened AV Cable	158
Cable Accessories	165	Fasteners	169	Solar Cable	162, 41
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LOOKING FOR OUR CONNECTORS INDEX - SEE PAGE 130

SPEAKER CABLE

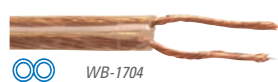
Everyone, at some stage of their life, needs to run a length of wiring to set up a speaker or two. Yes, you may be able to cobble some mains fig.8 flex to do the job - but really, let's get serious. The Jaycar range of speaker cable goes from quite modest to gi-normous! At the modest prices shown below, why not just use the right stuff - with

polarisation to boot - to get that job done, neatly & efficiently. Oh, and if you find yourself doing speaker wiring jobs a fair bit, you may be better off buying a spool. It's always there when you need it.



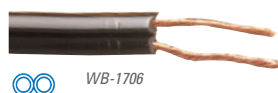
Light Duty Figure 8 14/0.14mm OFC

Ideal for Hi-Fi systems, intercoms, etc.
Grey with black trace.
Cat. WB-1702



Regular Duty Figure 8 14/0.20mm

Clear with white trace.
Cat. WB-1704



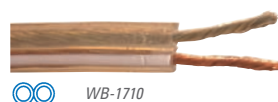
Medium Duty Figure 8 19/0.18mm OFC

Suited to amplifiers up to 150 watts.
19 x 0.18mm. Black with white trace.
Cat. WB-1706



Heavy Duty Figure 8 24/0.20mm OFC

Suited for speaker systems above 150 watts.
24/0.2mm. Clear with black trace.
Cat. WB-1708



Extra Heavy Duty Figure 8 41/0.20mm OFC

Clear with white trace.
Cat. WB-1710



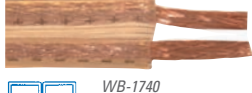
Extra Heavy Duty Figure 8 79/0.20mm OFC

Exactly half the wire content of the Jumbo cable but still 3 times thicker than the heavy duty cable. Clear with white trace.
Cat. WB-1712



Jumbo Speaker Cable - 259/0.12mm OFC

Top quality speaker cable. Figure 8, 259/0.12mm strands each side. Clear - blue trace
Cat. WB-1732



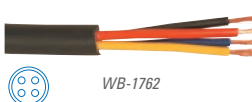
Flat Jumbo Speaker Cable - 203/0.12mm OFC

Ideal for car stereo or home wiring under the carpet. Clear with white trace.
Cat. WB-1740



Pro Audio Speaker Cable - 41/0.16mm OFC

Super flexible speaker cable. Separate colour-coded 18AWG red and black conductors in a single outer sheath. Conductors: 41 x 0.16 OFC. Jacket OD: 6mm
Cat. WB-1754



Core Pro Audio Speaker Cable - 40/0.16mm OFC

Super flexible for stage & pro applications. Four core OFC colour coded conductors. Conductors: 40 x 0.16mm OFC. Jacket OD: 7.5mm
Cat. WB-1762

SPECIFICATIONS	WB-1702	WB-1704	WB-1706	WB-1708	WB-1710	WB-1712	WB-1732	WB-1740	WB-1754	WB-1762
Conductor diameter	0.51mm x 2	0.74mm x 2	0.8mm x 2	0.97mm x 2	1.29mm x 2	1.8mm x 2	1.92mm x 2	1.7mm x 2	0.16mm x 2	0.16mm x 2
Conductor mm²	0.215mm² x 2	0.44mm²	0.483mm² x 2	0.75mm² x 2	1.288mm² x 2	2.5mm² x 2	2.93mm² x 2	2.3mm² x 2	0.824mm² x 2	0.824mm² x 2
AWG	24 x 2	21 x 2	20 x 2	18/19 x 2	16 x 2	13 x 2	12/13 x 2	13/14 x 2	18	18
Stranding	(14 x 0.14mm OFC) x 2	(14 x 0.2mm OFC) x 2	(19 x 0.18mm OFC) x 2	(24 x 0.2mm OFC) x 2	(41 x 0.2mm OFC) x 2	(79 x 0.2mm OFC) x 2	(259 x 0.12mm OFC) x 2	(203 x 0.12mm OFC) x 2	(41 x 0.16mm OFC) x 2	(41 x 0.16mm OFC) x 2
Insulation	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
Dimensions	1.8mm x 3.6mm	2mm x 4mm	2.6mm x 5.2mm	2.8mm x 5.6mm	3.2mm x 6.4mm	4.0mm x 8.0mm	4mm x 8mm	12.5mm x 8.5mm	6mm	7.5mm
Roll Length	100m	100m	100m	100m	100m	100m	100m	100m	100m	100m

Sold by the metre or by the roll

Sold by the metre or by the roll

▲ Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	WB-1702	\$0.50	\$40.00	\$32.00
100m	WB-1704	\$0.70	\$55.00	\$45.00
100m	WB-1706	\$0.80	\$67.00	\$60.00
100m	WB-1708	\$1.20	\$89.00	\$79.00
100m	WB-1710	\$1.75	\$150.00	\$105.00

▲ Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	WB-1712	\$2.70	\$209.00	\$175.00
100m	WB-1732	\$4.10	\$340.00	\$295.00
100m	WB-1740	\$3.50	\$285.00	\$235.00
100m	WB-1754	\$1.95	\$165.00	\$125.00
100m	WB-1762	\$3.90	\$329.00	\$255.00

SPEAKER CABLE - SMALL ROLLS



Light Duty Figure 8

14/0.14mm Figure 8. Grey with black trace. AWG: 24 x 2.
Cat. WB-1703



Heavy Duty Figure 8

24/0.20mm Figure 8 clear with black trace. AWG: 18 x 2
Cat. WB-1709



Extra Heavy Duty

79/0.2mm figure 8. Clear with white trace. AWG: 13 x 2.
Cat. WB-1713



▲ Roll Length	Description	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
30m	Light Duty	WB-1703	\$12.95	\$11.35	\$10.35
30m	Heavy Duty	WB-1709	\$32.95	\$29.45	\$26.50
30m	Extra Heavy Duty	WB-1713	\$74.95	\$67.50	\$59.00

SCREENED AUDIO & VIDEO CABLE



Figure 8 Twin Screened

Twin grey PVC covered individually screened conductors. Screens electrically separated.
Cat. WB-1502



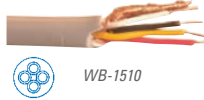
Single Screened Audio

Grey PVC covered, light duty cable. Ideal for patch cords, small microphones, amplifier wiring, etc.
Cat. WB-1500



2 Core Round

Twin screened pair (not balanced). Enclosed in a thick wall PVC jacket. 0.127/7 + 0.12/40
Cat. WB-1504



4 Core Round

4 conductors each screened and encased in one PVC covering. Ideal for DIN plug and socket wiring. Screens electrically common to all conductors.
Cat. WB-1510



Professional S-Video

High Quality cable for video. S-Video uses 4 pin mini DIN plugs. This is the same cable as used in our S-Video video cables. Ideal for home cinema.
Cat. WB-1556



Single Core OFC Screened

High quality mono audio cable. Braid: 96/0.10 + Alum, Capacitance: 66.8pF/m, Impedance: 65Ω@1m
Cat. WB-1508



Figure 8 OFC Screened Audio

High quality audio cable. As used on our best leads.
Cat. WB-1506



Professional RGB Video Cable

RGB video cable with 3 screened cables for red, green and blue video. Inside cable insulation is colour coded and suitable for video signals. Each cable is 6mm diameter. Individual conductors can be split and used for individual composite video signals if required.
Cat. WB-1559

Sold by the metre or by the roll

SPECIFICATIONS	WB-1502	WB-1500	WB-1504	WB-1510	WB-1556	WB-1508	WB-1506	WB-1559
Conductor diameter	0.32mm x 2	0.32mm x 2	0.32mm x 2	0.32mm x 4	0.64mm x 2	0.32mm x 2	0.32mm x 2	0.64mm x 2
Conductor mm ²	0.08mm ² x 2	0.08mm ² x 2	0.08mm ² x 2	0.08mm ² x 4	0.32mm ² x 2	0.08mm ² x 2	0.08mm ² x 2	0.32mm ² x 2
AWG	28 x 2	28 x 2	28 x 2	28 x 4	22	22	28	22
Max Temp.	70°C	70°C	70°C	70°C	70°C	60°C	70°C	70°C
Stranding	28 x 0.12mm	28 x 0.12mm	40 x 0.12mm	28 x 0.12mm	25 x 0.12mm	45 x 0.12mm	7 x 0.12mm	25 x 0.12mm
Insulation	PVC	PVC	PVC	PVC	PVC	OFC/PEF	PVC	PVC
Resistance (20°C)	0.2245 ohm/m	0.2245 ohm/m	0.002245 ohm/m	0.2245 ohm/m	0.055 ohm/m	0.0365 ohm/m	0.23 ohm/m	0.055 ohm/m
Dimensions	4mm x 8mm	3mm	3.5mm	4.5mm	6 x 2 x 6mm	6mm	6.5mm	6 x 6 x 6mm
Roll Length	100m	100m	100m	100m	100m	100m	40m	50m

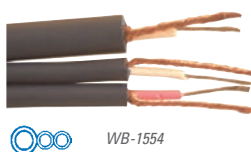
▲ Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	WB-1502	\$1.00	\$85.00	\$65.00
100m	WB-1500	\$0.55	\$45.00	\$35.00
100m	WB-1504	\$0.90	\$67.00	\$55.00
100m	WB-1510	\$1.30	\$105.00	\$80.00

▲ Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	WB-1556	\$1.75	\$140.00	\$120.00
100m	WB-1508	\$2.70	\$229.00	\$175.00
40m	WB-1506	\$4.50	\$155.00	\$119.00
50m	WB-1559	\$5.15	\$215.00	\$180.00

SCREENED AUDIO & VIDEO CABLE - PRO GRADE

Professional Audio & Video

Triple cable, 2 for audio and the thicker one for video. It is the same cable that's used in our 3 RCA to 3 RCA pre-made cables. 2 Audio Cables.



SPECIFICATIONS	TWO AUDIO CABLES
Inner conduct	20 x 0.12mm OFC
Insulator	1.6mm FPE Red/White
Screen	40 x 0.12mm OFC
Jacket	PVC 3.6mm dia non migration
SPECIFICATIONS	VIDEO CABLE
Inner conduct	24 x 0.12mm OFC
Insulator	2.5mm FPE White
Screen	4 x 16 x 0.12mm OFC
Jacket	PVC 6mm dia non migration
AWG	24

Sold by the metre or by the roll

▲ Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
50m	WB-1554	\$3.50	\$130.00	\$105.00

STORE DETAILS

For store locations and opening hours see the back cover of this catalogue or visit our website.



BUY IT ON THE WEB...

Shop for all these Jaycar Electronics products on our website - and check out our latest products & offers!



SHOW US YOUR BUILD COMPETITION

Aaron, who shops at our Jaycar Brighton store built:



After burning a few holes in the kitchen bench my wife wasn't too impressed. So after a bit of research I managed to put together this small portable soldering station built from some scrap timber and fitted with things from Jaycar. In particular the carbon filter fan at the back to suck out the fumes.



75 OHM COAXIAL TELEVISION CABLE & ROLLS



WB-2002

Belden Brand 75 Ohm Domestic TV Coax

This is RG59 with an OD of 6mm. Belden No. 9275.

- Inductance: .097uH/300mm
- Capacitance: 16.2pF/300mm
- Attenuation: 100MHz - 2.6db/30m, 300MHz - 4.45db/30m, 600MHz - 6.20db/30m

Cat. WB-2002



WB-2004

75 Ohm RG59 Gas Injected Foam Coax

New generation TV Coax. Both a braid & foil, provides 100% screening.

- Won't get water logged underground
- Black in colour
- Outside diameter 6mm

Cat. WB-2004

**TECH TALK**

We do not sell cheap 3C-2V type TV coax. It's screening is inadequate for acceptable performance IN TODAY'S DIGITAL TV ENVIRONMENT

Sold by the metre or by the roll

Belden Brand Quad Shield RG6 75 Ohm Coax

Used by Pay-TV installers. Quality Belden brand. We have repackaged in Australia on 100m reels. Normally this is only available in 1000 foot boxes.

It features a solid 18AWG steel centre conductor, copper plated, gas injected polyethylene foam insulation (to keep water out), Black PVC jacket, plus 4 layers of screening: a combination of aluminium foils and braiding.

- 100% sweep tested 5MHz-1GHz.

Cat. WB-2009

SPECIFICATIONS	WB-2009
Centre Conductor	18AWG steel Cu plated 1.016 dia
Core O.D	4.572mm
Jacket O.D	7.569mm
Nom. Impedance	75Ω
Nom. capacity	16.2pF/ft
Vel. of prop	82%, 53.1pf/m
AUSTAR Approval	F 30456
Foxtel Approval	F 30456
Belden Part	1189A



▲ Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
152m	WB-2002	\$1.15	\$139.00	\$105.00
100m	WB-2004	\$0.70	\$55.00	\$45.00
100m	WB-2009	\$1.80	\$100.00	\$85.00



WB-2005



WB-2001

75 Ohm RG59 Gas Injected Foam Coax

A 30m roll is generally a common length for a domestic TV antenna installation. Save over buying by the metre, and a small roll is easy to work with.

Cat. WB-2005 (Black)

Cat. WB-2001 (White)



WB-2014

Belden Brand Quad Shield RG6 75 Ohm Coax

30m roll of the WB-2009 Belden Coax shown above.

- Austar/Foxtel approval: F 30456
- AWG: 18.

Cat. WB-2014

Foxtel Approved



Sold by the metre or by the roll

▲ Roll Length	Colour	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
30m	Black	WB-2005	\$17.95	\$15.95	\$14.35
30m	White	WB-2001	\$19.95	\$17.95	\$15.90
30m	Black	WB-2014	\$44.95	\$40.45	\$35.90

PROFESSIONAL MICROPHONE CABLE

The best quality microphone cable for all P.A. and stage use. Flexible black matt finish PVC low noise cable with tinned copper screening.



See CCTV cable WB-2017 on page 160



WB-1530

2 Core Screened

High quality mic cable for PA, stage. 60/0.08 x 2 core. Conductive PE insulation on conductors provides improved shielding. Cotton filled & tissue wrapped. Braided Shield: 16 x 9/0.10 tinned copper (144/0.10). Outer Jacket 6.0mm diameter

Cat. WB-1530



WB-1540

4 Core Screened

Conductors: 26/0.10 x 4. Conductive PE insulation on conductors provides improved shielding. cotton filled & tissue wrapped. Braided shield: 16 x 8/0.10 tinned copper (128/0.10). Outer Jacket 6.0mm diameter

Cat. WB-1540

Sold by the metre or by the roll

▲ Roll Length	AWG	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	18	WB-1530	\$2.85	\$239.00	\$185.00

▲ Roll Length	AWG	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	22	WB-1540	\$2.70	\$215.00	\$185.00

COMMUNICATION & TELEPHONE CABLE



WB-2012

50 Ohm RG58 C/U Networking

As used for computer networking.

Cat. WB-2012



WB-2010

50 Ohm RG58/U

Suited up to 500MHz, ideal for CB, marine, amateur and two-way radio.

Cat. WB-2010



WB-2015

50 Ohm RG213/U

Communication cable commonly used in UHF.

Cat. WB-2015



WB-1620

2 Pair (4 Wire)

Flat cable. Ivory colour, 4 x 7 x 0.12mm

Cat. WB-1620



WB-1622

3 Pair (6 Wire)

Flat cable. Ivory colour, 6 x 7 x 0.12mm

Cat. WB-1622



ACMA Approved

Sold by the metre or by the roll

▲ Conductors	AWG	OD	Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
19/0.18 + 112/0.12mm	23	5mm	100m	WB-2012	\$1.95	\$165.00	\$135.00
19/0.18 + 112/0.12mm	23	5mm	100m	WB-2010	\$1.45	\$120.00	\$100.00
7/0.75 + 216/0.12mm	23	10.2mm	100m	WB-2015	\$4.50	\$379.00	\$292.00
7/0.16mm	28	5mm	100m	WB-1620	\$0.70	\$59.00	\$45.00
7/1.16mm	28	7mm	100m	WB-1622	\$0.90	\$79.00	\$59.00

INTERCOM / ALARM / CCTV CABLE



Bell Wire

Ideal for doorbells, intercoms, or anywhere where a really thin figure 8 cable is required. 7/0.10mm x 2

Cat. WB-1700



Alarm - 4 Core

Flexible stranded conductors, 7 x 0.16 in tough outer sheath.

Cat. WB-1590



Alarm - 6 Core A-Tick Approved

Austel approved alarm cable. Use with alarms that have diallers. 7/0.2 x 6 flexible stranded conductors in tough outer sheath.

OD 5.1mm. Colour white

Cat. WB-1598



RG59 / Power Cable

Combines RG59 coaxial cable and 16G power cable. Ideal for CCTV and surveillance applications. OD: 70 x 7.5mm

Cat. WB-2017 Sold by the metre or by the roll

▲ Roll Length	AWG	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	30	WB-1700	\$0.25	\$21.00	\$16.00
100m	25	WB-1590	\$0.80	\$65.00	\$45.00
100m	24	WB-1598	\$1.75	\$129.00	\$119.00
100m	25	WB-2017	\$1.60	\$139.00	\$105.00



Alarm Cable

7 x 0.16mm, 4 core

Cat. WB-1591



Alarm Cable - A-Tick Approved

Austel approved. For use in alarms with diallers. 6 x 7/0.2 flexible stranded conductors in tough outer sheath.

Cat. WB-1596



Sold by the 30m roll

▲ Roll Length	AWG	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
30m	25	WB-1591	\$21.95	\$19.70	\$17.55
30m	24	WB-1596	\$44.95	\$40.45	\$35.90

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!



COMPUTER / DATA CABLE



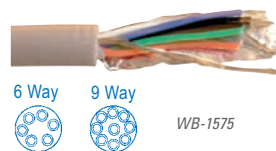
50 Ohm RG174U Coax Cable

Handy 20m length of unterminated RG174/U cable as commonly used in Wi-Fi and amateur radio installations. Tinned copper braid.

- Impedance: 50 ohm
- Insulation: Polyethylene (PE)
- AWG: 28

Cat. WB-2018

▲ Roll Length	AWG	Cat.	Per Metre	1+ Rolls	5+ Rolls
RG174/U 20m		WB-2018	\$24.95	\$21.20	\$16.20



Computer

All are screened to stop RFI.

- 6 way: 7/0.12 x 6C + foil + 7/0.16 OD 5mm
- 9 way: 7/0.12 x 9C + foil + 7/0.16 OD 5mm
- AWG: 28

Cat. WB-1575 & Cat. WB-1578

Sold by the metre or by the roll

▲ Roll Length	AWG	Cat.	Per Metre	1+ Rolls	5+ Rolls
6 Way 100m		WB-1575	\$1.90	\$159.00	\$125.00
9 Way 100m		WB-1578	\$2.20	\$189.00	\$145.00

Cat 5E Solid Network

Single strand Cat 5e, used for long runs in permanent installations.

- A-Tick approved, Blue in colour, 100MHz



POLYWRAPPED 30M PACK - NO ROLL

Cat. WB-2023

100M ROLL

Cat. WB-2022



Sold by the metre, 30m pack or by the roll

▲ Roll Length	AWG	Cat.	Per Metre	1+ Rolls	5+ Rolls
30m	24	WB-2023	\$39.95	\$35.90	\$31.90
100m	24	WB-2022	\$1.45	\$125.00	\$94.00



	IDC RIBBON	RAINBOW
Pitch	1.27mm (0.05")	1.27mm (0.05")
Strands	7/0.127mm	7/0.127mm
AWG	28	28

Sold by the metre or by the roll

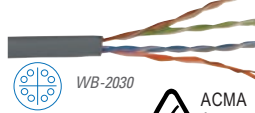
▲ Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
16 Way 30m	WM-4502	\$1.85	\$44.00	\$38.00
26 Way 30m	WM-4504	\$2.95	\$75.00	\$58.00
50 Way 30m	WM-4508	\$5.95	\$155.00	\$117.00
16 Core 30m	WM-4516	\$3.95	\$99.00	\$89.00



Cat 5e 8 Core Stranded Network

An ACMA approved high quality cable for patch leads and short runs. Consists of 4 twisted pairs, each conductor 7/0.20mm copper wire, polypropylene insulated with a tough ivory colour PVC jacket. 100MHz.

Cat. WB-2020



Cat 6 Solid Core UTP Network

Designed for reliable high-speed networks. Suitable for IDC terminations on patch panels and wall plates. 4 x 23 AWG solid core twisted pairs. PVC spline.

Cat. WB-2030 Sold by the metre or by the roll

▲ Roll Length	AWG	Cat.	Per Metre	1+ Rolls	5+ Rolls
100m	24	WB-2020	\$1.45	\$125.00	\$94.00
100m	23	WB-2030	\$1.75	\$149.00	\$115.00

RELATED PRODUCTS



CUTTERS

P215



HEATSHRINK

P164



COAX STRIPPER

P212



CRIMP TOOLS

P211



CABLE CLIPS

P170

HIGH CURRENT - GENERAL PURPOSE - SINGLE CORE

**15 Amp Tinned**

Flexible DC tinned copper power cable suitable for general purpose automotive and marine applications.

Cat. WH-3073 & Cat. WH-3075

**25 Amp Tinned**

Ideal for most automotive wiring. Tinned for corrosion prevention in marine applications.

Cat. WH-3080 & Cat. WH-3082

**56A 8 Gauge OFC High Current**

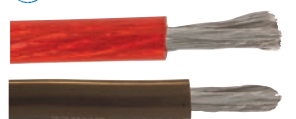
Good for all but the biggest car amplifiers etc.

Cat. WH-3060 & Cat. WH-3062

What does "OFC" mean? It means OXYGEN FREE COPPER. It's a purer form of copper metal.

**110A 4 Gauge OFC Super High Current**

Run from your battery to distribution boxes and then the 8GA to amps etc. Cat. WH-3064 & Cat. WH-3066

**160A 2 Gauge OFC Ultra High Current**

Run from your car battery to distribution boxes and then 8GA or 4GA to amps, etc. Cat. WH-3070 & Cat. WH-3072

**200A 0 Gauge OFC Ultra High Current**

Run from your battery to distribution blocks and then 2GA, 4GA or 8GA to your amplifiers or other power equipment for seriously high current applications.

Cat. WH-3092 & Cat. WH-3094

SPECIFICATIONS	WH-3073 & WH-3075	WH-3080 & WH-3082	WH-3060 & WH-3062	WH-3064 & WH-3066	WH-3070 & WH-3072	WH-3092 & WH-3094
Current Capacity	15A	25A	56A	100A	150A	200A
Conductor mm ²	1.84mm ²	2.9mm ²	8.31mm ²	10mm ²	13.5mm ²	15.8mm ²
Conductor Material	Tinned Copper	Tinned Copper	OFC	OFC	OFC	OFC
AWG	15	12	8	4	2	0
Stranding	26 x 0.3mmTC	41 x 0.3mmTC	7 x 95/0.12mm	7 x 7 x 34/0.127mm	145 x 19/0.12mm	7 x 7 x 81/0.12mm
Insulation	PVC	PVC	PVC	PVC	PVC	PVC
Resistance (20°C)	0.0108 ohm/m	0.0059 ohm/m	0.00252Ω/m	0.00097Ω/m	0.0007Ω/m	350 micro ohms/m
Wire Dia.	1.53mm	1.99mm	4.05mm	7.70mm	9.6mm	12.2mm
Overall Dia.	3.2mm	4.5mm	7.52mm	21.10mm	12.0mm	15mm
Roll Length	100m	100m	100m	50m	30m	25m

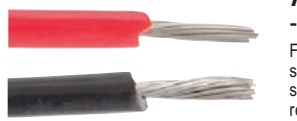
Sold by the metre or by the roll

Sold by the metre or by the roll

▲ Colour	Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
Red	100m	WH-3073	\$1.25	\$95.00	\$79.00
Black	100m	WH-3075	\$1.25	\$95.00	\$79.00
Red	100m	WH-3080	\$2.55	\$225.00	\$189.00
Black	100m	WH-3082	\$2.55	\$225.00	\$189.00
Red	100m	WH-3060	\$4.15	\$365.00	\$309.00
Black	100m	WH-3062	\$4.15	\$365.00	\$309.00

▲ Colour	Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
Red	50m	WH-3064	\$9.95	\$439.00	\$375.00
Black	50m	WH-3066	\$9.95	\$439.00	\$375.00
Red	30m	WH-3070	\$16.95	\$449.00	\$379.00
Black	30m	WH-3072	\$16.95	\$449.00	\$379.00
Red	25m	WH-3092	\$24.95	\$549.00	\$469.00
Black	25m	WH-3094	\$24.95	\$549.00	\$469.00

HIGH CURRENT - GENERAL PURPOSE - HANDY PACKS

**7.5 Amp Tinned - Handy Packs - 10 Metre Roll**

Flexible heavy duty tinned copper cable suitable for general purpose wiring up to 250V supplied on an easy to use handy pack 10m reel. Suitable for use in marine applications.

**15 Amp Tinned - Handy Packs - 10 Metre Roll**

Flexible DC tinned copper power cable suitable for general purpose automotive and marine applications. Supplied on an easy to use 10m handy pack reel and available in three colours.

• Tinned copper cable

SPECIFICATIONS	ALL MODELS
Rated Current	7.5A
Conductor Dia.	0.97mm
Conductor mm ²	0.75mm ²
AWG	18/19
Stranding	24 x 0.2mmTC
Insulation	PVC
Resistance (20°C)	0.0237 ohm/m
Overall Dia.	2.4mm
Roll Length	10m

SPECIFICATIONS	ALL MODELS
Rated Current	15A
AWG	16
Stranding	26 x 0.3mm
Insulation	PVC
Max Temp.	80°C
Overall Dia.	3.3mm
Roll Length	10m

▲ Colour	Roll Length	Cat.	1+ Roll	4+ Rolls	10+ Rolls
Red	10m	WH-3045	\$5.25	\$4.70	\$4.20
Black	10m	WH-3046	\$5.25	\$4.70	\$4.20
Green	10m	WH-3047	\$5.25	\$4.70	\$4.20

▲ Colour	Roll Length	Cat.	1+ Roll	4+ Rolls	10+ Rolls
Red	10m	WH-3054	\$11.95	\$10.70	\$9.50
Black	10m	WH-3055	\$11.95	\$10.70	\$9.50
Green	10m	WH-3056	\$11.95	\$10.70	\$9.50

7.5 Amp Tinned - Heavy Duty Silicone Handy Packs - 10M Rolls

Silicone rubber insulation, very flexible with high temperature rating. Max temperature 180°C.



▲ Colour	Roll Length	Cat.	Qty 1+	Qty 4+	Qty 10+
Red	10m	WH-3035	\$12.95	\$11.35	\$10.35
Black	10m	WH-3037	\$12.95	\$11.35	\$10.35

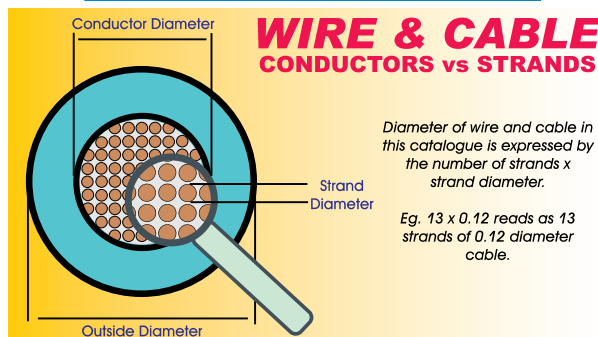
WHY OUR WIRE IS TINNED

TECH TALK

We now supply all multistrand power cable with the copper conductors tinned. When you put a coating of pure tin over the copper, you prevent the copper from oxidising. This oxidising can prevent you from achieving a good, tinned solder connection to the wire. This is particularly important in marine and car installations. We have not increased our price to you for this step up in quality.



For light duty Hook-up cable see page 163



Diameter of wire and cable in this catalogue is expressed by the number of strands x strand diameter.

Eg. 13 x 0.12 reads as 13 strands of 0.12 diameter cable.

HIGH CURRENT - GENERAL PURPOSE - 2 CORE

**7.5 Amp 2 Core Tinned DC Power Cable**

Double insulated 2 core power cable suitable for auto & boating applications. Tinned copper cable suitable for use in marine applications. Sold by the metre or 10m handy pack or 30m roll pack. PVC Insulation. Resistance (20°C): 0.024 ohm/m. Max Temp.: 80°C

• Dimensions: 5(W) x 3.2(H)mm

Cat. WH-3053, Cat. WH-3049 & Cat. WH-3057

**15 Amp Tinned**

Double insulated 2 core tinned power cable suitable for automotive and marine applications (PVC + 48 x 0.2mm²) x 2. WH-3077 is 30m roll pack of WH-3079. PVC Insulation. Resistance (20°C): 0.0123 ohm/m. Max Temp.: 80°C.

• Dimensions: 4.5 x 7.2mm

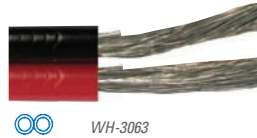
Cat. WH-3077 & Cat. WH-3079

**25 Amp Figure-8 Tinned - by the metre**

Ideal for most auto, marine, or general purpose wiring. Twin core for positive and negative connections. Tinned copper conductors. PVC Insulation. Resistance (20°C): 0.0053 ohm/m. Max Temp.: 80°C.

• 3.5mm (outside dia)

Cat. WH-3087

**56 Amp Figure-8 Tinned - by the metre**

For higher current applications where twin core cabling is required. Red & black colour for easy identification. PVC Insulation. Resistance (20°C): 0.0024 ohm/m. Max Temp.: 80°C

• Dimensions: 6.7 x 13.6mm

Cat. WH-3063

**80 Amp Figure-8 Tinned - by the metre**

For even higher current applications where twincore cabling is required. Red & black colour for easy identification. PVC Insulation. Resistance (20°C): 0.0013 ohm/m. Max Temp.: 80°C

• Dimensions: 8.5 x 17.0mm

Cat. WH-3067

Sold by the metre or by the roll

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!

▲ Rated Current	Conductor Dia	Conductor mm ²	Stranding	AWG	Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
7.5A	1.9mm	0.75mm ² x 2	24 x 0.2mm ²	18	100m	WH-3057	\$1.40	\$109.00	\$89.00
						Cat.	1+Roll	4+ Rolls	10+ Rolls
7.5A	1.9mm	0.75mm ² x 2	24 x 0.2mm ²	18	10m handy pack	WH-3049	\$12.95	\$11.35	\$10.35
7.5A	1.9mm	0.75mm ² x 2	24 x 0.2mm ²	18	30m roll	WH-3053	\$35.95	\$31.95	\$27.95
						Cat.	Per Metre	1+ Rolls	5+ Rolls
15A	1.45mm x 2	1.5mm ² x 2	(48 x 0.2mm ²) x 2	16	100m	WH-3079	\$2.50	\$185.00	\$159.00
						Cat.	1+Roll	4+ Rolls	10+ Rolls
15A	1.45mm x 2	1.5mm ² x 2	(48 x 0.2mm ²) x 2	16	30m roll	WH-3077	\$69.95	\$62.95	\$55.95
						Cat.	Per Metre	1+ Rolls	5+ Rolls
25A	3.3mm x 2	2.90mm ²	41/0.30mm (per conductor)	12	100m	WH-3087	\$4.35	\$389.00	\$349.00
56A	3.2mm x 2	8mm ² x 2	(7 x 101 x 0.12mm ²) x 2	8	50m	WH-3063	\$8.20	\$359.00	\$309.00
80A NEW	4.11mm x 2	13.3mm ² x 2	(7 x 7 X 24 x 0.12mm ²) x 2	6	50m	WH-3067	\$12.95	\$559.00	\$479.00

SOLAR SYSTEM CABLE

**UV Stabilised Solar Power Cable - 100 Metre Cable**

Very tough cable, specifically for the rigours of outdoor use in solar panel installations. Dust, age and UV resistant, tinned copper conductors to minimise corrosion. Use with our PV connectors for complete environmental protection.

SPECIFICATIONS	BOTH MODELS
Conductor material	Tin plate copper, Class 5
Insulation material	XLPC
TUV certification	2 PGF 1161/01.06

See page 41 for Solar Connectors

TÜV CERTIFIED

Sold by the metre or by the roll

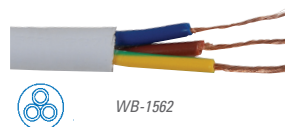
▲ Rated Current	Conductor Area	Rated Voltage	Temp. Range	Rating	Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
58A	100m x 4.0mm ²	1000VDC	-40 to +125°C	IP65	100m	WH-3121	\$4.95	\$435.00	\$369.00
76A	100m x 6.0mm ²	1000VDC	-40 to +125°C	IP65	100m	WH-3122	\$7.95	\$699.00	\$595.00

AC MAINS CABLE

**Two Core Mains Flex**

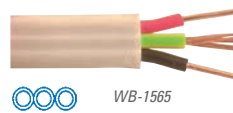
Two-core mains flex cable (no earth) with a white outer PVC jacket. Suitable for general 240V appliances not requiring an earth. Safety Approval number: Q070451.

Cat. WB-1560

**Three Core Mains Flex**

Standard 240V 3 core mains flex power cable with a white outer PVC jacket. Suitable for extension cables and general 240V appliances where an earth is required. Safety Approval number: Q080451.

Cat. WB-1562

**Twin & Earth Wiring - Lighting**

Twin & Earth Flat Cable

1.00mm² x 2+E (Lights 10A)

Cat. WB-1565

**Twin & Earth Wiring - Power**

Twin & Earth Flat Cable

2.5mm² x 2+E (Power 20A)

Cat. WB-1568

Sold by the metre or by the roll

▲ Conductor Area	Current	Stranding	Roll Length	Cat.	Per Metre	1+ Rolls	5+ Rolls
0.75mm ² x 2	7.5A	24/0.2	100m	WB-1560	\$1.25	\$99.00	\$80.00
1.0mm ² x 3	10A	32/0.2	100m	WB-1562	\$2.85	\$229.00	\$185.00
1.0mm ² x 2+E	10A (Lights)	1/1.13mm	100m	WB-1565	\$1.55	\$125.00	\$100.00
2.5mm ² x 2+E	20A	7/0.67	100m	WB-1568	\$2.50	\$199.00	\$162.00

GENERAL PURPOSE POWER CABLE



LIGHT DUTY



HEAVY DUTY



EXTRA HEAVY DUTY

Flexible Light Duty

13 x 0.12mm. Suited for all general purpose wiring. 8 different colours available. PVC insulation.

Rated Current	0.6A	Overall Dia.	1.8mm
Conductor Dia.	0.42mm	AWG	25
Conductor mm ²	0.147mm ²	Roll Length	100m
Stranding	13 x 0.12mmTC		

Red	WH-3010	Black	WH-3011	Brown	WH-3012
Orange	WH-3013	Yellow	WH-3014	Green	WH-3015
Blue	WH-3016	White	WH-3017		

Sold by the metre or by the roll

▲	Per Metre	1+ Rolls	5+ Rolls
All Types	\$0.25	\$15.00	\$12.00

Heavy Duty

24 x 0.2mm. Suitable for 250V wiring and general heavy duty work. PVC insulation.

Rated Current	7.5A	Overall Dia.	2.4mm
Conductor Dia.	0.97mm	AWG	18/19
Conductor mm ²	0.75mm ²	Roll Length	100m
Stranding	24 x 0.2mm		

Red	WH-3040	Black	WH-3041	Green	WH-3042
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Sold by the metre or by the roll

▲	Per Metre	1+ Rolls	5+ Rolls
All Types	\$0.55	\$42.00	\$35.00

Extra Heavy Duty

32 x 0.2mm. Suitable for 250V wiring and general heavy duty work. PVC insulation.

Rated Current	10A	Overall Dia.	2.8mm
Conductor Dia.	1.15mm	AWG	17
Conductor mm ²	1mm ²	Roll Length	100m
Stranding	32 x 0.2mm		

Brown	WH-3050	Blue	WH-3052
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Sold by the metre or by the roll

▲	Per Metre	1+ Rolls	5+ Rolls
All Types	\$0.80	\$72.00	\$64.00

HOOK-UP CABLE



WH-3009



WH-3009



WH-3025

Flexible Light Duty - 25 Metre

Quality 13 x 0.12mm tinned hook-up wire on plastic spools.

Current rating	0.6A	Max temp.	70°C
Insulation	PVC	AWG	26
Resistance (20°C)	0.1365 ohm/m		

Red	WH-3000	Black	WH-3001	Brown	WH-3002
Orange	WH-3003	Yellow	WH-3004	Green	WH-3005
Blue	WH-3006	White	WH-3007		

▲	1+ Rolls	4+ Rolls	10+ Rolls
Sold Per Roll	\$5.50	\$4.90	\$4.30

Flexible Light Duty Reel Packs of 8 - 25 Metres

Quality 13 x 0.12mm tinned hook-up wire on plastic spools.

Current rating	0.6A	Max temp.	70°C
Insulation	PVC	AWG	26
Stranding	13 x 0.12mmTC	Overall Dia.	1.8mm
Resistance (20°C)	0.1365 ohm/m		

▲	Cat.	1+ Pack	4+ Packs	10+ Packs
	WH-3009	\$34.95	\$31.45	\$28.50

Hook Up Cable Packs 2 Metre Lengths

2 metres of 8 different colours of 10 x 0.12mm hook-up cable. Total of 16m of cable.

Lengths	2 metres
Qty	8 pcs
Stranding	10 x 0.12mm

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	WH-3025	\$4.95	\$4.45	\$3.90



SPECIAL APPLICATION



WH-3090



Trailer Cable - 10 Metre Roll

A 10 metre length of standard tinned 5 or 7 conductors sheathed in a tough black PVC jacket.

- See the Auto & Outdoors section or website for the conductor colours and a range of trailer plugs.

▲	Rated Current	Cores	Total Diameter	Roll Length	Cat.	1+ Roll	4+ Rolls	10+ Rolls
	5A per conductor	5 Core	6.3mm	10m	WH-3091	\$39.95	\$34.95	\$29.95
	5A per conductor	7 Core	8.2mm	10m	WH-3090	\$44.95	\$39.95	\$35.95

Enamelled Copper Wire

This soft copper wire is coated in a high dielectric strength varnish. You can solder through the enamel, but we recommend that you lightly sandpaper the wire ends with 200+ grit paper to ensure good solder adhesion, especially with RoHS type solder.



mm	B&S	Wght	AWG	Approx Lm	Cat.	1+ Roll	4+ Rolls	10+ Rolls
0.25	30	25g	33	58	WW-4012	\$6.95	\$6.25	\$5.50
0.315	28	25g	31	40	WW-4013	\$6.95	\$6.25	\$5.50
0.4	26	25g	28	22	WW-4014	\$6.95	\$6.25	\$5.50
0.5	24	100g	25	57	WW-4016	\$11.95	\$10.75	\$9.55
0.63	22	100g	23	36	WW-4018	\$12.95	\$11.35	\$10.35
0.8	20	100g	21	22	WW-4020	\$12.95	\$11.35	\$10.35
1.0	18	100g	19	14	WW-4022	\$10.95	\$9.75	\$8.75
1.25	16	100g	18	9	WW-4024	\$11.95	\$10.75	\$9.55

Tinned Copper Wire

Two handy sizes of AWG 22 (0.71mm dia.) for wire links etc.



▲	Weight	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
	25g	WW-4032	\$12.95	\$11.35	\$10.35
	100g	WW-4030	\$29.95	\$26.90	\$23.70

Nichrome Resistance Wire - 4 Metres

Used for wiring heating elements such as toasters, etc. 80% nickel, 20% chromium. Resistance 13.77 ohm per metre.

- Size 28 B&S (0.315mm).



LENGTH 4 METRES

▲	Roll Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	4m	WW-4040	\$4.95	\$4.45	\$3.90

Wire Wrap on Spools - 30 Metres

This Kynar wire is high quality silver plated.

- Available in three colours.
- Supplied on a 30 metre reel



▲	Roll Length	Colour	Cat.	Qty 1+	Qty 4+	Qty 10+
	30m	Red	WW-4344	\$15.95	\$14.35	\$12.70
	30m	Black	WW-4345	\$15.95	\$14.35	\$12.70
	30m	Blue	WW-4346	\$15.95	\$14.35	\$12.70

HEATSHRINK

Heatshrink Tubing - 5m Roll - 2:1

Purchase as a 5m box that can be neatly stacked and organised in the workshop or tradesman's van. Shrink with a heatgun, hairdryer or gas burner.

- 2:1 ratio

SPECIFICATIONS	ALL MODELS
Material	Polyethylene
Shrink Ratio	2:1
Operating temperature	-55 to 125°C
Shrink temperature	Start at 70°C and full recovery at 110°C
Flammability	VW-1
Approvals	RoHS and UL224
Colour	Black & Red
Roll length	5m
Box dimensions	49(W) x 177(H) x 165(D)mm



▲ Dia (mm)	Shrinks to (mm)	Black	Red	1+ Rolls	4+ Rolls	10+ Rolls	
1.5	0.75	WH-5680	WH-5690	\$5.45	\$4.90	\$4.30	Sold by the 5m box
2.5	1.25	WH-5681	WH-5691	\$6.45	\$5.75	\$5.15	
3.0	1.5	WH-5682	WH-5692	\$6.95	\$6.25	\$5.50	
5.0	2.5	WH-5683	WH-5693	\$8.95	\$8.25	\$6.95	2:1 Shrink Ratio Halogen Free
10.0	5	WH-5684	WH-5694	\$10.95	\$9.75	\$8.75	
16.0	8	WH-5685	WH-5695	\$14.95	\$13.45	\$11.95	
20.0	10	WH-5686	WH-5696	\$21.95	\$19.75	\$17.75	

Heatshrink Tubing - 1.2m Lengths - 2:1

Our heatshrink is flexible and made from flame-resistant polyolefin.

- Made to UL224 E180908 125°C.
- Shrinks to 50% of its size.
- Shrink with a heatgun, hairdryer or a gas burner, match etc.
- Length is 1.2 metres.



* Clear heatshrink not halogen free.

▲ Dia (mm)	Shrinks to (mm)	Green	Black	Red	Clear	Blue	White	Yellow	Qty 1+	Qty 4+	Qty 10+	
1.5	0.75	WH-5510	WH-5530	WH-5540	WH-5550*	WH-5560	WH-5570	WH-5590	\$1.45	\$1.30	\$1.15	2:1 Shrink Ratio Halogen Free
2.5	1.25	WH-5511	WH-5531	WH-5541	WH-5551*	WH-5561	WH-5571	WH-5591	\$1.65	\$1.45	\$1.30	
3.0	1.5	WH-5512	WH-5532	WH-5542	WH-5552*	WH-5562	WH-5572	WH-5592	\$1.85	\$1.65	\$1.45	
5.0	2.5	WH-5513	WH-5533	WH-5543	WH-5553*	WH-5563	WH-5573	WH-5593	\$1.95	\$1.75	\$1.55	All Sizes 1.2 metre lengths
6.0	3	WH-5514	WH-5534	WH-5544	WH-5554*	WH-5564	WH-5574	WH-5594	\$2.25	\$1.95	\$1.80	
10	5	WH-5515	WH-5535	WH-5545	WH-5555*	WH-5565	WH-5575	WH-5595	\$2.95	\$2.60	\$2.30	
16	8	WH-5516	WH-5536	WH-5546	WH-5556*	WH-5566	WH-5576	WH-5596	\$3.95	\$3.45	\$3.15	
20	10	WH-5517	WH-5537	WH-5547	WH-5557*	WH-5567	WH-5577	WH-5597	\$5.75	\$4.95	\$4.60	

Heatshrink Tubing with Glue Lining 4:1

The heat sensitive glue on the internal wall of the tube melts when heat is applied, allowing for a professional water and dust resistant seal.

- Black in colour and sold in 1.2m lengths
- 4:1 shrink ratio.

4:1 Shrink Ratio
Halogen Free



▲ Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
4	1	WH-5640	\$4.95	\$4.45	\$3.90
6	1.5	WH-5641	\$5.65	\$4.95	\$4.45
8	2	WH-5642	\$6.45	\$5.75	\$4.95
12	3	WH-5643	\$7.45	\$6.50	\$5.75
16	4	WH-5644	\$7.95	\$6.95	\$6.25
19	4.75	WH-5645	\$11.95	\$10.70	\$9.50
24	6	WH-5646	\$12.95	\$11.35	\$10.35

161 Piece Heatshrink Pack with Gas Powered Heat Blower

A great addition to your workshop or toolbox. The handy box includes an assortment of 160 heatshrink tubes in 7 different colours and diameters, plus 1 gas powered heat gun with Piezo ignition and flame or flameless output. All supplied in a transparent lightweight box that measures 242(L) x 175(W) x 30(H)mm.

- Use NA-1020 Butane Gas.



Size	Colour
15mm x 500mm	Black
1.5mm x 100mm	10 x green, red, yellow, blue, white & transparent
2.5mm x 100mm	6 x green, red, yellow, blue & transparent, 5 x white
3.5mm x 100mm	4 x green, red, yellow, blue & white, 4 x transparent
5.0mm x 100mm	3 x green, yellow, blue & white, 4 x red & transparent
6.0mm x 100mm	2 x red, yellow, blue & transparent, 1 x green & white
10mm x 100mm	2 x red, yellow, blue & transparent, 1 x green & white

▲	Heatshrink Pack	Cat.	Qty 1+	Qty 3+	Qty 6+
		TH-1620	\$39.95	\$35.90	\$31.90

Heat Shrinkable Braided Sleeving

Provides added protection to cables against flames and abrasion. Consists of polyester multifilament and special modified polyolefin filament, which will shrink when exposed to a heat source (Heat gun recommended). The unique woven construction makes it extremely flexible and easy to install on the hoses with irregular shapes.

SPECIFICATIONS	ALL MODELS
Operating range	-40°C to 125°C
Minimum shrink temperature	80°C
Minimum fully recovery temperature	120°C
Flammability	Self-extinguishing
Shrinking ratio	2:1
Approved	RoHS, Halogen Free
Shrink ratio	2:1
Length	1.2m

▲ Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
10	5	WH-5620	\$3.95	\$3.45	\$3.15
20	10	WH-5622	\$4.95	\$4.45	\$3.90
25	12.5	WH-5624	\$6.95	\$6.25	\$5.55
30	15	WH-5626	\$8.95	\$7.95	\$6.95

Yellow & Green Heatshrink Tubing

- 1.2m lengths
- Ideal for indicating earth connections.

Abrasion Resistant & Flame Retardant - 2:1 Shrink Ratio

▲ Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
3	1.5	WH-5610	\$2.95	\$2.60	\$2.30
10	5	WH-5612	\$3.95	\$3.45	\$3.15

Heatshrink Tube 50mm Black

Ideal for bundling battery packs, but also used for grips on kayak paddles etc. 2:1 shrink rate. Supplied in 300mm lengths.



2:1 Shrink Ratio
Halogen Free

▲ Size (mm)	Shrinks to (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
50	25	WH-5582	\$3.95	\$3.45	\$3.15

HEATSHRINK PACKS

Comprehensive Heatshrink Pack

- 1 length each of 7 different colours in 7 different sizes ranging from 1.5mm diameter to 20mm
- Sizes: 1.5, 3, 5, 6, 10, 16 & 20mm

Note: Clear is NOT Halogen Free

2:1 Shrink Ratio
Halogen Free



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
7 Pieces	WH-5520	\$14.50	\$12.95	\$11.35

Glue Lined Pre-cut Heatshrink Tubing - Trade Pack

A box of six common sizes of 95mm long glue lined heatshrink. Includes 20 pcs 4.0mm, 15pcs 6.0mm, 10pcs 8.0mm, 5pcs 12mm, 5pcs 16mm, & 5pcs 19mm - 60pcs total.

This is an economical way to get this product.

- Supplied in a see-thru nylon snap shut case
- Box dimensions: 205(W) x 108(D) x 35(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
60 Pieces	WH-5521	\$29.95	\$26.90	\$23.70

Handy Heatshrink Pack

Handy assortment of our high quality heatshrink tubing. Sizes from 1.5mm to 10mm.

- 10 pieces in all of 300 & 150mm length
- Colour Red & Black



2:1 Shrink Ratio
Halogen Free



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
10 Pieces	WH-5525	\$7.95	\$6.95	\$6.25

Heatshrink Assortment Trade Pack

All the heatshrink the technician, tradesman or serious hobby user will ever need. The pack contains 160 lengths of different sizes in a handy storage case.

- 1.5mm: 40 x black, 10 x red, 10 x clear
- 2.5mm: 25 x black, 5 x red, 5 x clear
- 3mm: 17 x black, 4 x red, 4 x clear
- 5mm: 14 x black, 3 x red, 3 x clear
- 6mm: 6 x black, 2 x red, 2 x clear
- 10mm: 6 x black, 2 x red, 2 x clear
- Case size: 205(L) x 110(W) x 35(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
160 Pieces	WH-5524	\$19.95	\$17.95	\$15.95

CABLE SLEEVING & WRAP

PVC Spaghetti Tubing Pack - 12 Piece

This sleeving is made from soft PVC. It does not shrink with heat. It is ideal for high-voltage protection of smaller wires, has abrasion resistance or you can bundle several smaller wires inside a length.

- 4 sizes - 1.5, 3.0, 5.0 & 10mm
- Colours - black, red, yellow, white, clear & blue
- All 300mm long
- 85°C rated
- Note: colour quantities vary from pack to pack



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
12 Pieces	WS-5502	\$9.95	\$8.75	\$7.75

Expandable PPS Sleevings

This PPS (Polyphenylene Sulphide) monofilament sleeving is ideal in high temperature environments and offers a lightweight mechanical protection to your cabling. The construction expands up to 3 times to allow easy insertions of cables and reverts back to original diameter for a snug fitment. The open weave design also dissipates heat and doesn't trap moisture.

SPECIFICATIONS ALL MODELS

Material	Polyphenylene Sulphide (PPS) monofilament UL94 V-0
Colour	Black
Length	2m



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
3mm x 2m	WH-5584	\$2.50	\$2.21	\$1.95
6mm x 2m	WH-5585	\$3.25	\$2.90	\$2.60
10mm x 2m	WH-5587	\$5.95	\$5.35	\$4.75
15mm x 2m	WH-5588	\$9.95	\$8.75	\$7.95

Braided Hook & Loop Loom Wrap - 1.5m

A fantastic solution for keeping cables wrapped up and neatly arranged. Wraps around your cables and secures them with hook and loop. When you need to add or remove cables, just undo the hook and loop. Couldn't be easier!

- Hook and loop width: 20mm
- Material: Polyester
- Working temperature: -50° to 150°C
- Melting point: 230°C +/- 5°C



32MM - 1.5M

Cat. WH-5654

51MM - 1.5M

Cat. WH-5656

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
32mm x 1.5m	WH-5654	\$14.95	\$13.35	\$11.70
51mm x 1.5m	WH-5656	\$17.95	\$15.95	\$14.35

Vidaflex Fibreglass Heat Resistant Sleevings

A woven fibreglass product used where heat or abrasive resistance is needed for a "spaghetti" type insulation application. Supplied in most commonly used sizes.

- Also sometimes called Cambric insulation
- Thermal resistance to 450°C
- 1 metre per pack



▲	Size (mm)	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
	3	1m	WS-5504	\$6.50	\$5.75	\$4.95
	4	1m	WS-5506	\$8.50	\$7.50	\$6.75

Self-Closing Braided Wrap

Protect cabling neat and tidy, and protected from abrasion, wear and tear using this flame resistant self closing wrap. Each 2m length is flexible and lightweight, and the open structure allows it to be easily installed without having to remove connectors or terminals.

SPECIFICATIONS ALL MODELS

Material	PET Polyethylene Terephthalate
Operating range	-50°C to +150°C
Melt point	250°C @ 5°C
Flammability	VW-1
Certificate	RoHS, Halogen Free
Cutting tool	Hot knife
Colour	Black
Length	2m

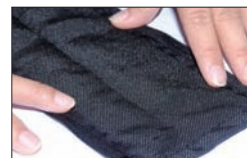


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm x 2m	WH-5630	\$6.95	\$6.25	\$5.50
9mm x 2m	WH-5632	\$7.95	\$6.95	\$6.25
13mm x 2m	WH-5634	\$10.95	\$9.85	\$8.75
19mm x 2m	WH-5636	\$12.95	\$11.35	\$10.35

Multi-Filament Zipper Wrap - 1.5m

No more messy cables! Simply insert the cable and do up the zip. Will keep messy computer cabling, tangled home theatre AV cabling, or general power cabling neat and tidy but still easily accessible when you need to change a connection. Double filament for extra strength and durability

- Material: Polyester Multi-Filament
- Working temperature: -50° to 150°C
- Flammability: VW-1
- Melting point: 240°C +/- 1°C
- Colour: Black



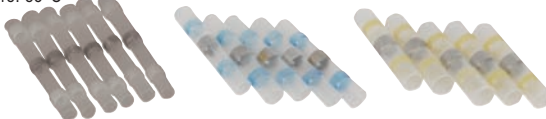
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
50mm x 1.5m	WH-5663	\$34.95	\$31.45	\$27.90

HEATSHRINK ACCESSORIES

Solder Splice Heat Shrink Tube

Solder splice heat shrink tubes allow you to quickly join two cables thanks to the small section of solder in the middle of the tube. Simply slide a tube over the join in two cables and heat as you would any other shrink tube. As the tube shrinks the solder melts to electrically connect the wires resulting in a join which is reliable and well insulated. Available in four sizes approximately 26-40mm in length with 5 pieces per pack. Shrink ratio 2:1.

- Minimum shrink temperature: 85°C
- Starting temperature of solder melt: 140°C
- Operating temperature: -55°C to 125°C
- Minimum full recovery temperature: 160°C



▲ Dia. x Length (mm)	Pk	Colour	Cat.	Qty 1+	Qty 4+	Qty 10+
1.7 x 26	6	Clear	WH-5669	\$4.95	\$4.45	\$3.90
2.7 x 40	5	Red	WH-5670	\$4.95	\$4.45	\$3.90
4.5 x 40	5	Blue	WH-5671	\$4.95	\$4.45	\$3.90
6.0 x 40	5	Yellow	WH-5672	\$4.95	\$4.45	\$3.90

Assorted Solder Splice Heatshrink Pack - 42 Pieces

A handy assorted pack of solder splice heatshrink tubes to join electrical wires quickly and easily and make a good quality join. Each splice has just the right amount of solder to create a secure connection.

- Kit includes:
- 12 x White 1.7 x 26mm
 - 12 x Red 2.7 x 40mm
 - 12 x Blue 4.5 x 40mm
 - 6 x Yellow 6.0 x 40mm



1 YEAR WARRANTY

▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
42	WH-5668	\$34.95	\$31.45	\$27.90

TAPE

Heatshrink Tape - Black

Ideal for emergency repairs or when you aren't able to use a piece of tubing. It conforms to odd shapes that heatshrink tubing is unable to, and has a low melting point adhesive for easy installation. It also remains flexible at extremely low temperatures. Keep a roll in the toolbox.

- Operating temperature: -40 - 105°C
- Shrink temperature: 125°C



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
25mm wide 5m roll	WH-5659	\$12.95	\$11.35	\$10.35

WIRE GLUE

Wire Glue

A soldering iron in a jar. Wire Glue is an electrically conductive adhesive that enables you to make solder-free connections when you don't have a soldering iron handy, or aren't able to apply heat for some reason. Hundreds of hobby, trade and electronics uses. Lead-free, cures overnight.

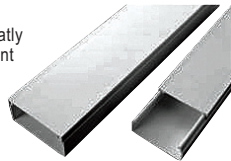


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
9ml	NM-2831	\$9.95	\$8.75	\$7.75

CABLE MANAGEMENT

Rectangular Cable Duct - 1m

Keep your home theatre cables under control and neatly out of the way. Available in two sizes and in convenient 1m lengths, the leads to your wall-mounted plasma or LCD TV will be kept bundled up but easily accessible. The cover can be quickly removed and replaced for maintenance and can be painted to match the colour of your wall.



▲ Size	Cat.	Qty 1+	Qty 4+	Qty 10+
25 x 16mm	HP-1330	\$6.95	\$6.25	\$5.50
50 x 25mm	HP-1332	\$9.95	\$8.75	\$7.75

Floor or Wall Cable Ducting

This extruded ducting helps conceal messy cables across doorways, along skirting boards or walls. The ducting is 50.8mm wide and is sold in convenient 1.83m lengths.



▲ Size	Cat.	Qty 1+	Qty 4+	Qty 10+
1.83m	HP-1226	\$15.95	\$14.35	\$12.70

Carpet Cable Cover - Sold by the Roll or Metre

Conceal unsightly cords and eliminate trip hazards with this low profile cord cover. Its 'cut to length' flexibility avoids the constraints of similar cord covers.

Just lay it over your cords, and let the "hook and loop" technology on the underside do its job on your nylon based carpet to secure your cables in place. The channel along the middle allows you to reconfigure your set up without the need to remove any cords. Re-usable over 1,000 times, machine washable and a fraction of the price of other carpet cord covers. The ideal solution for any office, boardroom, meeting room or public space. Choose from black to keep cable runs discreet, or yellow to prevent people tripping over it.

- 100mm wide
- Sold in handy 5m or 25m dispenser boxes or by the metre



▲ Sold Per Metre	Cat.	Per Metre	5 Metre+	1 Roll
Black	HP-2000	\$9.95	\$9.39	\$199.00
Yellow	HP-2002	\$9.95	\$9.39	\$199.00
▲ 5 Metre Rolls	Cat.	Qty 1+	Qty 4+	Qty 10+
5m Roll - Black	HP-2004	\$46.95	\$39.95	\$36.95
5m Roll - Yellow	HP-2006	\$46.95	\$39.95	\$36.95

Carpet Cable Cover 1.5m

Increase safety when cables need to be laid across floors. It's durable and will significantly reduce the trip-hazard of cables. Secures to carpet with plastic hook & loop.

- Weight: 135g
- Length: 1.5m
- Dimensions: 1500(L)m x 120(W)mm



NEW 2017

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-1231	\$14.95	\$13.45	\$11.95

Cable Tags

Clip them over your cable so you know what you're unplugging (before you disconnect the wrong thing!). Suits most power and A/V cables. Pack of 8 with writeable surface.

- Universal
- Weight: 1.2g
- Dimensions: 34(L) x 16(W) x 3(H)mm
- Material: Thermoplastic Rubber



NEW 2017

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Pack of 8	HP-1253	\$4.95	\$4.45	\$3.95

Cable Clips

Universal fit to keep your cables where you want them. Included genuine 3M adhesive tape. Simply stick down, and push your cable into place. Pack of 6.

- Universal
- Genuine 3m tape
- Weight: 5g
- Dimensions: 28(Dia.) x 15(H)mm



NEW 2017

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-1254	\$4.95	\$4.45	\$3.95

Desk Cable Organiser

Provides 5-slots for keeping cables from sliding off the table. Great for laptops, charging cables, or anywhere you temporarily connect devices.

- Rubber moulded design
- Weighted base
- Weight: 66g
- Dimensions: 70(W) x 30(D) x 40(H)mm



NEW 2017

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-1255	\$4.95	\$4.45	\$3.95

CABLE MANAGEMENT (CONTINUED)

Dune Tube with Applicator

Keep your cables neat and tidy. They are easily bent for corners and are slit so cables can enter or leave at any point. Simply slip in the cable, insert the applicator and slide away. Easier to use than Spiral Binding; more secure than Loom Tube!

- Made from black flexible plastic
- INCLUDES SPECIAL WIRE SHUTTLE.



▲ Dia.	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
15mm	2.5m	HP-1235	\$9.95	\$8.75	\$7.75
20mm	2.5m	HP-1237	\$11.95	\$10.70	\$9.50
20mm	10m	HP-1239	\$39.95	\$35.90	\$31.90

Spiral Binding

Keep wiring tidy! Available in 2 sizes and colours and is easily wrapped around bunches of cables to keep them tidy.



▲ Dia.	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	2.5m	HP-1218	\$6.15	\$5.50	\$4.90
12mm	1.5m	HP-1219	\$6.15	\$5.50	\$4.90
6mm	2.5m	HP-1220	\$6.15	\$5.50	\$4.90
12mm	1.5m	HP-1222	\$6.15	\$5.50	\$4.90

Round Desk Grommet

The perfect way to easily and neatly store your cables. It is ideal for installation in desks, workstation, telephones cabinets or entertainment unit. Simply drill or cut a 60mm hole through the surface & insert the grommet into the hole.

- Dimensions: 60mm (diameter) / Black in colour



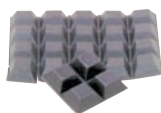
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
60mm (diameter)	HP-1228	\$9.95	\$8.75	\$7.75

RUBBER FEET

Small Stick On

Dimensions: 12 x 12mm

- Height 6mm
- Moulded in oil resistant synthetic rubber



▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP-0815	\$2.50	\$2.20	\$1.95
20	HP-0816	\$7.95	\$6.95	\$6.25

Large Stick On

- Dimensions: 20 x 20mm
- Height 8mm
- Moulded in oil resistant synthetic rubber



▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP-0825	\$3.95	\$3.45	\$3.15
20	HP-0822	\$9.95	\$8.75	\$7.75

Screw On Equipment Feet

- Silver in colour
- Screw on
- Pack of 4



▲ Size mm	Cat.	Qty 1+	Qty 4+	Qty 10+
30	HP-0830	\$6.95	\$6.25	\$5.50
50	HP-0832	\$8.95	\$7.95	\$6.95

Screw Fixing Rubber Feet

Requires 3mm screw and nut.

- 11mm dia. x 7.5mm high
- Moulded in oil resistant synthetic rubber



▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP-0800	\$4.50	\$3.95	\$3.60

RUBBER GROMMETS

Rubber Grommets

Suitable for use with chassis up to 16 gauge/1.5mm.

- Moulded in oil resistant synthetic rubber
- Black



▲ Pack	Cable Dia	Chassis Hole	Cat.	Qty 1+	Qty 4+	Qty 10+
8	6mm	9.5mm	HP-0702	\$3.95	\$3.45	\$3.15
8	9.5mm	12.7mm	HP-0704	\$4.65	\$4.15	\$3.60

Loom Tubes

Tidy up the cables behind your PC or audio equipment, secure cabling in your car. The Loom Tube will keep wiring in place and suits many types of applications. The tube has a slit so that cables can enter/leave at any point along its length. Made from black flexible PVC.

- Three diameters available: 7, 10 or 19mm
- Available in either 2m or 10m lengths - just cut to suit
- Good abrasion resistance



▲ Dia.	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
7mm	2m	HP-1221	\$3.20	\$2.83	\$2.45
10mm	2m	HP-1224	\$3.80	\$3.30	\$2.95
19mm	2m	HP-1227	\$4.95	\$4.45	\$3.95
7mm	10m	HP-1223	\$14.95	\$13.45	\$11.95
10mm	10m	HP-1225	\$15.95	\$14.35	\$12.70
19mm	10m	HP-1229	\$19.95	\$17.95	\$15.95
25mm	2.0m	NEW HP-1801	\$5.95	\$5.35	\$4.75
25mm	10m	NEW HP-1804	\$19.95	\$17.95	\$15.95
40mm	2.0m	NEW HP-1807	\$6.95	\$6.25	\$5.55
48mm	2.0m	NEW HP-1810	\$7.95	\$7.15	\$6.35

CABLE GLANDS

IP68 Nickel Plated Brass Cable Glands

These nickel-plated brass cable glands are certified to IP68 and provide superior grip and sealing. They are totally protected and O-ring sealed against the ingress of dust, moisture and water to a depth of one metre. The unique design speeds installation and eliminates the need to disassemble the gland before fitting. A self-adjusting cable seal allows the glands to be used on a wide range of cable sizes and minimises inventory holdings. These glands are supplied complete with seals and locknuts.

5 sizes are available.

Cat.	Cable Size
HP-0744	3 to 6.5mm
HP-0745	4 to 8mm
HP-0746	5 to 10mm
HP-0747	6 to 12mm
HP-0748	10 to 14mm

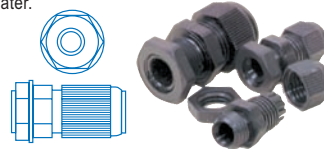


▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
2	HP-0744	\$7.45	\$6.50	\$5.75
2	HP-0745	\$7.95	\$6.95	\$6.25
2	HP-0746	\$8.95	\$7.95	\$6.95
2	HP-0747	\$9.95	\$8.75	\$7.75
2	HP-0748	\$9.95	\$8.75	\$7.75

IP68 Waterproof Cable Glands

These unique cable clamps incorporate a unique sealing mechanism which works on the camera shutter principle. Simply mount the clamp, insert the cable through and tighten up. There is no need to disassemble the clamp prior to installation. These clamps are rated to IP68. This is the highest rating possible. They are totally dust tight and protected against submersion in water.

- Trapezoidal thread for quick high torque tightening
- No throwaway "O" rings
- Long metric thread
- Superior strain relief
- UL Approved NYLON 94V-2



▲ Pack	Cable Dia	Thread	Cat.	Qty 1+	Qty 4+	Qty 10+
2	3-6.5mm	EP-7	HP-0720	\$4.95	\$4.45	\$3.90
2	4-8mm	EP-9	HP-0724	\$5.45	\$4.90	\$4.30
2	5-10mm	EP-11	HP-0727	\$5.95	\$5.25	\$4.75
2	6-12mm	EP-13.5	HP-0732	\$6.45	\$5.75	\$4.95
2	10-14mm	EP-16	HP-0736	\$6.95	\$6.25	\$5.50
2	13-18mm	EP-21	HP-0740	\$7.95	\$6.95	\$6.25

Cordgrip Clamps

For cables 7.4mm - 8.2mm diameter, (3 wire mains).

- Panel cutout 14mm
- Black nylon



▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP-0716	\$1.95	\$1.75	\$1.55

For cables 6.2mm - 7.4mm diameter.

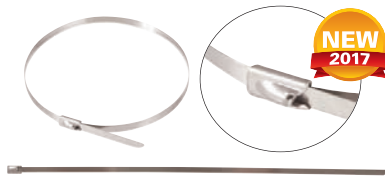
- Panel cutout 11.5mm

▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
4	HP-0718	\$1.95	\$1.75	\$1.55

CABLE TIES

Metal Cable Ties

Made from 316 marine grade stainless steel for the ultimate in durability. Self-locking head design, suitable for virtually any use, boating, outdoors, underground, anywhere a plastic cable tie won't cut it.



NEW 2017

▲ Length	Width	Pack	Cat	Qty 1+	Qty 4+	Qty 10+
150mm	4.6mm	10	HP-1182	\$3.95	\$3.55	\$3.15
290mm	4.6mm	10	HP-1184	\$4.95	\$4.45	\$3.95
200mm	7.9mm	10	HP-1186	\$5.95	\$5.35	\$4.75
520mm	7.9mm	10	HP-1188	\$9.95	\$8.95	\$7.95

Plastic Cable Ties

- UV Resistant
- Black Nylon
- Safe edges



▲ Length	Pack	Cat	Qty 1+	Qty 4+	Qty 10+
100mm	20	HP-1200	\$1.85	\$1.65	\$1.45
150mm	15	HP-1201	\$2.25	\$1.95	\$1.80
200mm	15	HP-1202	\$2.50	\$2.20	\$1.95
300mm	15	HP-1245	\$2.95	\$2.60	\$2.30
500mm	15	HP-1248	\$5.95	\$5.25	\$4.75
605mm	15	HP-1249	\$6.95	\$6.25	\$5.50
100mm	100	HP-1203	\$4.95	\$4.45	\$3.90
150mm	100	HP-1204	\$7.95	\$6.95	\$6.25
200mm	100	HP-1205	\$10.95	\$9.75	\$8.75
300mm	100	HP-1246	\$12.95	\$11.35	\$10.35
100mm	500	HP-1211	\$17.95	\$15.95	\$14.35
150mm	500	HP-1212	\$29.95	\$26.95	\$23.95
200mm	500	HP-1213	\$39.95	\$35.90	\$31.90
300mm	500	HP-1247	\$45.00	\$40.45	\$35.95

Extra Long Mixed Cable Tie Set

This handy cable tie set contains 70 black cable ties of various lengths up to 500mm.

- 10 pcs 500(L) x 10(W)mm
- 10 pcs 510(L) x 8(W)mm
- 20 pcs 400(L) x 5(W)mm
- 30 pcs 300(L) x 4(W)mm



▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
70	HP-1209	\$18.95	\$16.95	\$14.95

Coloured Cable Ties

Identify wiring looms with different coloured cable ties. Pack includes 25pcs each of red, yellow, green, blue and black.

- Total 125 cable ties.
- Length 100mm.



▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP-1196	\$9.95	\$8.75	\$7.75

HOOK & LOOP CABLE TIES

Mixed Hook & Loop Cable Ties

Keep your cables neat and tidy. Packet of 16 hook & loop cable ties in assorted sizes from 125 to 180mm.



▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
16	HP-1232	\$9.95	\$8.75	\$7.75

CABLE TIE MOUNTS

Adhesive Cable Tie Mounts

These are used in conjunction with our cable ties. They simply stick to the surface, then the cable tie is looped through and around the cables.

- 21mm square



▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10	HP-1195	\$4.50	\$3.95	\$3.60

100mm Label Cable Ties

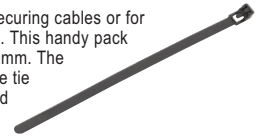
Ideal for large or complex wiring looms, these allow you to label cable bundles for identification later to make tracing or fault-finding easy. Easily marked with permanent marker or self-adhesive labels.



▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
20	HP-1244	\$3.50	\$3.15	\$2.75

Releasable Cable Tie Pack

Releasable cable ties are perfect for temporarily securing cables or for jobs where you need to periodically change cables. This handy pack contains 10 pieces at lengths of 125, 200, and 300mm. The release lever is located below the head of the cable tie making it easy to access but unlikely to be released accidentally. The ties are made from UV resistant black nylon and have safe edges to prevent cuts.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-1217	\$6.95	\$6.25	\$5.50

Cable Tie Tidy Kit

Consists of:

- 30 x 120mm cable ties,
- 20 x 120mm reusable cable ties,
- 10 x self adhesive cable tie mounts,
- 20 x saddle type cable tie mounts.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-1198	\$9.95	\$8.75	\$7.75

Cable Tie Box - 400 Pieces

Let's face it, the mixed box of cable ties in all the colours of the rainbow is fine, however most of the time you only use about 2-3 different sizes and blacks the colour because of its UV stability. This is your box. This kit consists of: 100 pcs x 200mm, 100 pcs x 150mm, 200 pcs x 100mm.

All in a see through flat storage case that makes access to the ties easy. The box even has some compartment dividers included so that it becomes a parts storage box when all of the ties have been used up.



- Box dimensions: 250(W) x 180(D) x 40(H)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-1216	\$19.95	\$17.70	\$15.70

Cable Tie Gun

Once you have wrapped the tie around the cable you simply slide the tail into the gun and pull the trigger. This will tighten the tie and cut off the excess to produce a neat and professional finish.

- Tension adjustment for different ties.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	TH-2600	\$23.95	\$21.35	\$18.95

Hook & Loop Cable Ties

Tidy up behind the TV or audio equipment with these re-usable hook & loop cable ties. Each tie is 140mm in length.



Note: Lead not supplied.

▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
5	HP-1210	\$4.95	\$4.45	\$3.90

Concrete Cable Tie Mounts

Use these cable tie mounts in runs along walls and ceilings made of brick or concrete.

- UL 94V-2 approved Nylon
- Hole required: Approx. 7mm dia x 37mm deep



▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
20	HP-0795	\$5.50	\$4.90	\$4.30
100	HP-0796	\$23.50	\$20.95	\$18.70

FASTENERS & SCREWS

Metric Nylon Fasteners

- Precision moulded from white nylon.
- Fully insulated
- Suitable for high temperature work
- Corrosion free and won't shake loose.
- Ideal for transistor and heatsink use
- Supplied in polybag
- Round heads



M3 NYLON SCREWS, NUTS & WASHERS

Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M3 x 12mm	Screws, Phillips Drive	10	HP-0140	\$2.95	\$2.60	\$2.30
M3 x 25mm	Screws, Phillips Drive	10	HP-0142	\$3.50	\$3.15	\$2.75
M3 Nuts	Hex	10	HP-0146	\$3.00	\$2.60	\$2.30
M3 Nuts	Hex with Washer	25	HP-0150	\$6.50	\$5.75	\$4.95
M3 Washer	Flat	10	HP-0148	\$2.50	\$2.20	\$1.95

M4 NYLON SCREWS, NUTS & WASHERS

Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M4 x 10mm	Screw, Phillips Drive	25	HP-0160	\$7.50	\$6.75	\$5.95
M4 x 16mm	Screw, Phillips Drive	25	HP-0162	\$8.50	\$7.50	\$6.75
M4 Nuts	Hex	25	HP-0168	\$7.00	\$6.25	\$5.50
M4 Washers	Flat 10mmOD, 4.2mm ID	25	HP-0166	\$5.00	\$4.45	\$3.95

Woodscrews - Phillips Head

- Ideal for mounting speakers
- Black finish
- No.6 size suitable for tweeters, midrange and crossovers.
- No.10 size suitable for Woofers



Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
No.6 x 15mm	Round Head (Tweeters)	20	HP-0620	\$4.95	\$4.45	\$3.90
No.6 x 15mm	Countersunk	20	HP-0626	\$4.95	\$4.45	\$3.90
No.8 x 25mm	Countersunk	20	HP-0625	\$5.95	\$5.25	\$4.75
No.10 x 30mm	Round Head (Woofers)	20	HP-0624	\$5.95	\$5.25	\$4.75
No.10 x 30mm	Countersunk	20	HP-0628	\$5.95	\$5.25	\$4.75

Self-Tapping Screws

- Nickel plated Steel



Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
No.4 x 6mm	Phillips Head	25	HP-0550	\$3.00	\$2.60	\$2.30
No.4 x 9mm	Phillips Head	25	HP-0565	\$3.00	\$2.60	\$2.30
No.4 x 12mm	Phillips Head	25	HP-0554	\$3.50	\$3.15	\$2.75
No.8 x 12mm	Phillips Head	25	HP-0558	\$4.00	\$3.60	\$3.15

Metric Metal Thread Fasteners

- Nickel or Cadmium Plated and passivated screws
- Supplied in polybag



M2 SCREWS

Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M2 x 8mm	Screw, Pozi Drive	4	HP-0390	\$1.50	\$1.35	\$1.20

M3 EQUIPMENT SCREWS

*Black jannapped screws used holding top/side panels on VCR, DVD, Amplifiers, etc.

Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M3 x 5mm	Screw, Phillips, Black	25	HP-0440	\$2.30	\$2.03	\$1.80
M3 x 5mm	Screw, Phillips, Black	200	HP-0441	\$6.00	\$5.25	\$4.75

M3 SCREWS, NUTS & WASHERS

Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M3 x 6mm	Screw, Phillips	25	HP-0400	\$2.50	\$2.20	\$1.95
M3 x 6mm	Screw, Phillips	200	HP-0401	\$6.50	\$5.75	\$4.95
M3 x 10mm	Screw, Phillips	25	HP-0403	\$3.00	\$2.60	\$2.30
M3 x 10mm	Screw, Phillips	200	HP-0404	\$7.50	\$6.75	\$5.95
M3 x 15mm	Screw, Phillips	25	HP-0406	\$3.50	\$3.15	\$2.75
M3 x 15mm	Screw, Phillips	200	HP-0407	\$8.50	\$7.50	\$6.75
M3 x 20mm	Screw, Phillips	25	HP-0410	\$3.50	\$3.15	\$2.75
M3 x 25mm	Screw, Phillips	25	HP-0414	\$3.50	\$3.15	\$2.75
M3 x 32mm	Screw, Phillips	25	HP-0418	\$4.00	\$3.60	\$3.15
M3 Nuts	Hex	25	HP-0425	\$2.95	\$2.60	\$2.30
M3 Nuts	Hex	200	HP-0426	\$9.95	\$8.95	\$7.95
M3 Washers	Flat	25	HP-0430	\$3.00	\$2.60	\$2.30
M3 Washers	Flat	200	HP-0431	\$7.95	\$6.95	\$6.25
M3 Washers	Shakeproof	25	HP-0433	\$3.50	\$3.15	\$2.75
M3 Washers	Spring	25	HP-0436	\$3.00	\$2.60	\$2.30

M4 SCREWS, NUTS & WASHERS

Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M4 x 10mm	Screw, Phillips	25	HP-0450	\$3.50	\$3.15	\$2.75
M4 x 10mm	Screw, Phillips	200	HP-0451	\$9.95	\$8.95	\$7.95
M4 x 15mm	Screw, Phillips	25	HP-0453	\$4.50	\$3.95	\$3.60
M4 Nuts	Hex	25	HP-0462	\$3.50	\$3.15	\$2.75
M4 Washers	Flat	25	HP-0465	\$3.50	\$3.15	\$2.75
M4 Washers	Shakeproof	25	HP-0468	\$4.00	\$3.60	\$3.15

M6 Rack Screws, Nuts & Washers

Suitable for mounting rack style enclosures into rack units



Size	Type	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
M6 x 16mm	Screw, Pozi Drive, Black	12	HP-0300	\$4.95	\$4.45	\$3.90
M6 Nuts	Captive Nuts	12	HP-0310	\$7.95	\$6.95	\$6.25
M6 Washer	Flat Washer	12	HP-0322	\$3.50	\$3.15	\$2.75

NUTS & SPRINGS

Potentiometer Nuts

Packet of 12 potentiometer nuts and washers.



▲ Size	Thread	Pack	Cat.	Qty 1+	Qty 10+	Qty 50+
24mm	3/8" 32THD	12	RP-3500	\$3.50	\$2.75	\$2.45
16mm	Metric	12	RP-7500	\$3.50	\$2.75	\$2.45

200 Piece Spring Assortment

This set contains approximately 200 springs, with 20 different types, compression and tension. They range from 10mm long to 70mm long.

- Sizes for all are given on the lid
- Supplied in a plastic storage case



▲	Size	Thread	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
	200 Pieces			HP-0638	\$19.95	\$17.95	\$15.95

Thread Repair Kits (Small Metric) M3 - M6

These products enable you to drill out a stripped or otherwise damaged thread in a blind hole. You can then insert a replacement thread with the coiled thread inserts and regain full function of the threaded hole, often giving a much stronger thread than the original one. This also works when a damaged stud or screw shaft has been removed.

The basic thread repair kit includes: drill bit, thread tap, insertion tool, tag punch and 10 inserts of the nominated thread size.

Four versions available:

- HP-1600 Thread repair kit for M3 threads
- HP-1602 Thread repair kit for M4 threads
- HP-1604 Thread repair kit for M5 threads
- HP-1606 Thread repair kit for M6 threads



▲ Type	Cat.	Qty 1+	Qty 3+	Qty 6+
M3	HP-1600	\$29.95	\$26.90	\$23.70
M4	HP-1602	\$29.95	\$26.90	\$23.70
M5	HP-1604	\$29.95	\$26.90	\$23.70
M6	HP-1606	\$29.95	\$26.90	\$23.70

SPACERS

Untapped Nylon PCB Spacers

Superb range of spacers. Fixing is by size 6 or 8 self tapping screws. The hex centre section can be gripped to prevent rotation while fixing.

- OD 8.2mm.



▲ Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	5	HP-0980	\$2.75	\$2.45	\$2.15
12mm	5	HP-0982	\$2.75	\$2.45	\$2.15
19mm	4	HP-0984	\$2.75	\$2.45	\$2.15
25mm	4	HP-0986	\$2.95	\$2.60	\$2.30
32mm	4	HP-0988	\$3.50	\$3.15	\$2.75
38mm	4	HP-0990	\$3.95	\$3.45	\$3.15

Untapped Nylon Spacers

- Untapped
- ID 4.1mm. OD 6.4mm.



Length	Diameter	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	6mm	25	HP-0930	\$6.95	\$6.25	\$5.50
10mm	6mm	25	HP-0934	\$7.95	\$6.95	\$6.25

SPACERS (CONTINUED)

3mm Tapped Nylon Spacers

These spacers are tapped all the way through for a 3mm screw.
• OD 6mm.



▲ Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6.3mm	25	HP-0920	\$8.95	\$7.95	\$6.95
9mm	25	HP-0922	\$9.95	\$8.95	\$7.95
12mm	25	HP-0924	\$9.95	\$8.95	\$7.95
15mm	25	HP-0926	\$11.95	\$10.70	\$9.50

Untapped Metal Spacers

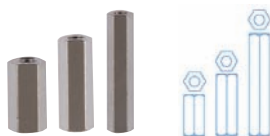
• Nickel plated steel
• Untapped.
• ID: 3.4mm OD 4.7mm.



▲ Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6mm	8	HP-0860	\$3.65	\$3.15	\$2.90
9mm	8	HP-0862	\$3.95	\$3.45	\$3.15
12mm	6	HP-0864	\$4.65	\$4.15	\$3.60
25mm	4	HP-0866	\$4.95	\$4.45	\$3.90

3mm Tapped Metal Spacers

• Nickel plated brass
• 3mm standard metric thread



▲ Length	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10mm	8	HP-0900	\$3.95	\$3.45	\$3.15
10mm	100	HP-0901	\$29.50	\$26.55	\$23.60
15mm	8	HP-0904	\$4.95	\$4.45	\$3.90
25mm	8	HP-0907	\$5.95	\$5.25	\$4.75

PCB STANDOFFS

Adhesive PCB Standoffs

The self adhesive base sticks directly to the chassis.

- Requires 4mm PCB hole.
- Adhesive pads 18mm square.
- Nylon



▲ Height	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6.35mm	25	HP-0760	\$11.95	\$10.70	\$9.50
12.7mm	25	HP-0762	\$13.95	\$12.35	\$10.95

Screw Mount PCB Supports

These supports have a 2.5mm hole for securing to chassis with a screw, use 3 x 10mm or a self taper.

- Requires 4mm PCB hole.
- Nylon



▲ Height	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10mm	25	HP-0764	\$7.95	\$6.95	\$6.25
20mm	25	HP-0766	\$9.95	\$8.75	\$7.75

Flush Mount PCB Supports

These are virtually flush mount on the underside of the chassis.

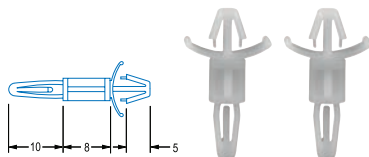
- PCB hole 4mm.
- Chassis hole 5.5mm
- Chassis thickness 0.8-1.2mm.
- Nylon



▲ Height	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
6.35mm	25	HP-0774	\$6.95	\$6.25	\$5.50
10mm	25	HP-0776	\$7.50	\$6.75	\$5.95

Screwless PCB Standoff

• Nylon
Saves using nuts, bolts and spacers. Size 8mm. Requires 3mm hole each end.



▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP-0770	\$2.50	\$2.20	\$1.95

Metal Right Angle Standoffs

Threaded M3.5 standoffs, right angle.



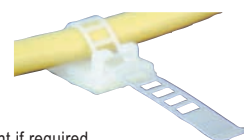
▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
8	HP-0872	\$4.95	\$4.45	\$3.90

CABLE CLIPS / CLAMPS

Adhesive Cable / Bundle Mounts

These have an adhesive base 25 x 18mm and cable tie that clips into the base to retain individual cables, or bundles of wiring.

- The maximum cable bundle diameter accommodated is 17mm.
- The base also has a 3mm hole for a screw mount if required.



▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
10	HP-1190	\$6.95	\$6.25	\$5.50

Adhesive Cable Clips

The easy way to secure cables to walls, cabinets etc. Simply peel off adhesive cover and slip cable in.

- Please note all sizes are in mm.
- Nylon



Cat.	A	B	C	D	E
HP-0782	11.7	5.9	15.9	2.5	5.2
HP-0784	13.4	8.2	16.0	4.7	8.0
HP-0786	19.0	11.9	19.0	7.9	11.8

▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP-0782	\$9.95	\$8.95	\$7.95
25	HP-0784	\$10.95	\$9.85	\$8.75
25	HP-0786	\$11.50	\$10.35	\$8.95

Cable Clips

These clips are made using a high-density polyethylene plastic material and galvanised high carbon steel nails. Available in packets of 25 and are priced up to 50% less than others.

- 4 sizes available



3 X 5MM

Accepts cables up to 3mm high by 5mm wide. Suits the following: WB-1706/WB-1708 speaker cable & 6 core flat telephone cable.

▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP-0680	\$2.45	\$2.15	\$1.95

5 X 8MM EXPANDABLE

Suits round cables with 5 x 8mm diameter - including 4 core alarm cable, 75Ω thin coax and 50Ω thin coax.

▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP-0682	\$2.75	\$2.45	\$2.15

5 X 7MM

Accepts cable up to 5mm high by 7mm wide. Suits the following: WB-1706/WB-1708 speaker cable & 6 core flat telephone cable

▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP-0692	\$2.95	\$2.60	\$2.30

7 - 10MM EXPANDABLE

Suitable for round cable 7-10mm diameter - including 6 core alarm cable, air spaced coax and Belden coax.

▲ Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
25	HP-0694	\$3.45	\$3.05	\$2.75

'P' Type Cable Clamps

- Nylon



▲ Size	Pack	Cat.	Qty 1+	Qty 4+	Qty 10+
For 5mm cable	6	HP-0752	\$1.95	\$1.75	\$1.55
For 7mm cable	6	HP-0754	\$2.45	\$2.15	\$1.95
For 10mm cable	6	HP-0756	\$2.95	\$2.60	\$2.30

INDEX - WORKBENCH



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SOLDERING STATIONS

COMPARISON GUIDE

No workshop bench is complete without a proper soldering station.

	TS-1610	TS-1620	TS-1564	TS-1584	TS-1640	TS-1390	TS-1440	TS-1513	TS-1574	TS-1645
										
Station Type	Soldering	Soldering	Soldering	Soldering	Soldering	Soldering	Soldering	Desoldering	Both	Hot Air
Power	10 Watts	40 Watts	48 Watts	50 Watts	60 Watts	60 Watts	70 Watts	80 Watts	60W/320W	300 Watts
Temp. Range	100-450°C	150-450°C	150-450°C	350-398°C*	160-450°C	160-480°C	200-480°C	160-480°C	160-480°C	100-450°C
Display					LED	LCD	LED	LCD	LCD	LED
ESD Safe				•	•		•	•	•	
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* Temperature rating is set by the soldering iron tip

SOLDERING STATIONS

10W Soldering Station

This is an exceptionally delicate, temperature controlled soldering iron. The low pencil weight will help reduce fatigue on your hands when working for prolonged periods. It's also very compact so you can almost keep it in your toolkit, and still have the precision you need on-site. While you don't want to go trying to solder Anderson® connectors with this, the delicate pencil has enough power to work with fine components and circuits. It's also good for very thin hookup style cable. Suitable for lead-based and lead-free solder thanks to the 100-450°C temperature range. Temperature is selected with the rotary dial, and the base unit includes an integrated stand.

- 10W heating element
- Integrated soldering pencil holder

*Spare pencil available by special order only

SPECIFICATIONS	TS-1610
Recommended use	Hobby
Power	10W
Temperature Range	100-450°C
Analogue/digital	Analogue
Operating voltage	240VAC
ESD rated	No
Lead-free rated	No
Dimensions	100(L) x 65(W) x 63(D)mm, 600g



40W Soldering Station

An ideal entry-level soldering station for the hobby user. This station comes with a lightweight iron with anti-slip grip and tip cleaning sponge, with temperature adjustment up to 450°C. It also has a 4mm banana socket connected to mains earth for soldering static-sensitive components.

- Spare tip 0.5mm conical: TS-1622

SPECIFICATIONS	TS-1620
Recommended use	Hobby
Power	40W
Temperature range	150 - 450°C
Analogue/digital	Analogue
Operating voltage	240VAC
ESD rated	No
Lead-free rated	No
Dimensions	135(L) x 82(W) x 70(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station 10W	TS-1610	\$29.95	\$26.95	\$23.95
Spare Pencil	TS-1611*	\$4.95	\$4.45	\$3.95

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station 40W	TS-1620	\$59.95	\$53.95	\$47.90
0.5mm Conical Tip	TS-1622	\$8.95	\$8.25	\$6.95

SOLDERING STATIONS

48W Soldering Station

Ideal station for the advanced hobby user. It features accurate analogue temperature adjustment, ceramic element and a lightweight pencil that will give you hours of fatigue-free soldering. The stand has spare tip storage and is very sturdy.

- Spare tips/pencil available

SPECIFICATIONS	TS-1564
Recommended use	Hobby
Power	48W
Temperature range	150 - 450°C
Analogue/digital	Analogue
Operating voltage	24V
ESD rated	No
Lead-free rated	Yes
Dimensions	150(L) x 115(W) x 92(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲ Solder Station 48W	TS-1564	\$99.95	\$89.95	\$79.95
Spare Pencil	TS-1565	\$39.95	\$35.90	\$31.90
0.5mm Conical Tip	TS-1566	\$9.95	\$9.25	\$7.75
2.0mm Chisel Tip	TS-1567	\$9.95	\$9.25	\$7.75

60W Lead Free Soldering Station with LCD

Differing types of lead-free solder have a variety of melting points which can create problems for older soldering stations or those not designed for lead free solder. This excellent soldering station is particularly suited to lead-free soldering and is just as capable with ordinary leaded solder. The iron has a wide temperature range which is microprocessor controlled and maintained to within a few degrees of the selected setting. The lightweight soldering pencil is fitted with a soft insulated rubber grip for comfortable long term use and has a silicon rubber sheathed power cable that won't be damaged by contact with the hot soldering tip. It is connected to the main unit via a 1.1m low voltage cable which is terminated with a secure 5 pin connector. The control unit houses the temperature controls and simultaneously displays the set operating temperature and actual tip temperature, as well as system status on its digital LCD panel. For a list of spare parts search for TS-1390 on our website.

- Spare conical tips available

SPECIFICATIONS	TS-1390
Recommended use	Trade / Industrial
Power / Voltage	60W 24VAC
Temperature range	160 - 480°C
Analogue/digital	Digital
ESD rated	No
Lead-free rated	Yes
Dimensions	130(L) x 170(W) x 240(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲ Soldering Station 60W	TS-1390	\$129.00		
▲ Accessories to suit	Cat.	Qty 1+	Qty 3+	Qty 6+
0.4mm Conical Tip	TS-1391	\$12.95	\$11.35	\$10.35
1mm Conical Tip	TS-1392	\$12.95	\$11.35	\$10.35
2mm Chisel Tip	TS-1393	\$12.95	\$11.35	\$10.35
3mm Bevel Tip	TS-1394	\$12.95	\$11.35	\$10.35

60W ESD Safe Soldering Station with LED Display

Featuring a powerful 60W heating element, you can dial in your preferred temperature settings with accuracy thanks to the digital display. It comes supplied complete with a vented soldering iron stand, with integrated sponge and tray to keep it clean. Select from Celsius or Fahrenheit temperature display.

- 30sec warm-up time to 350°C (Approx.)
- High temperature stability
- LED display

SPECIFICATIONS	TS-1640	SOLDERING IRON	TS-1640
Recommended use	Hobby	Power	60W
ESD rated	Yes	Temperature range	160-480°C
Lead-free rated	Yes	Operating voltage	240VAC
Analogue/digital	Digital	Dimensions	160(L) x 104(W) x 124(D)mm, 1.5kg



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲ Soldering Station 60W	TS-1640	\$149.00	\$133.95	\$118.95
Spare Pencil	TS-1641	\$19.95	\$17.95	\$15.95
0.5mm Conical Tip	TS-1642	\$9.95	\$9.25	\$7.75
2mm Conical Tip	TS-1643	\$9.95	\$9.25	\$7.75
3mm Bevel Tip	TS-1644	\$9.95	\$9.25	\$7.75

ADDICTED TO SOCIAL? WE'RE HERE TO CHAT - WHATEVER YOUR CHANNEL!



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SOLDERING STATIONS (CONTINUED)

300W Hot Air Rework Station with LED Display

SMD rework is a challenging task, but this rework station helps you get it done. With 300W of power and a selection of tip sizes, it allows you the precision and flexibility required to get it done. By using hot air rather than a soldering iron, you provide a more uniform heat transfer and can melt all solder pads at once, providing a method to remove the chip safely and effectively. You can then clean up the PCB, and use soldering paste (not included) to solder your new chip in place. Temperature selection is done via the digital display and push buttons, while air flow is controlled via the rotary dial. The base unit features an integrated dock for the blower to keep it from burning anything, which also puts it into automatic sleep mode. Lift the blower and it will quickly come back to temperature.

- Automatic sleep function
- LED display
- Variable air flow
- Suitable for SOIC, CHIP, QFP, PLCC, BGA & more

SPECIFICATIONS	TS-1645	SOLDERING IRON	TS-1645
Recommended use	Trade / Industrial	Power	300W
ESD rated	Yes	Temperature range	100-500°C
Lead-free rated	Yes	Operating voltage	240VAC
Analogue/digital	Digital	Dimensions	160(L) x 113(W) x 123(D)mm, 1kg



NEW
2017

1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station 300W	TS-1645	\$149.00	\$133.95	\$118.95
2.5mm Blower Tip	TS-1575	\$13.95	\$12.35	\$10.95
4.4mm Blower Tip	TS-1576	\$13.95	\$12.35	\$10.95
10 x 10mm Quad Tip	TS-1577	\$19.95	\$17.95	\$15.95
15 x 15mm Quad Tip	TS-1578	\$19.95	\$17.95	\$15.95

80W ESD Safe Desoldering Station with LCD

A high-performance desoldering station ideal for production and service use. This unit is microprocessor controlled for precise control of dynamic thermal performance where you need it. Suitable for desoldering all types of components, and also allow easy removal of the residual solder at the same time. Made of high quality ceramics, the heater inside the desoldering gun is highly stable and durable to provide quick heating. The unit has a backlit LCD that displays the set temperature and the actual tip or nozzle temperature in Celsius and Fahrenheit. The temperature is easily adjusted in 1° increments with simple up/down buttons. ESD safe and suitable for lead-free solder. Desoldering station comes with desoldering gun (with 2 conical tips), 4 filters, tip cleaning rod, and user instructions. A range of desoldering accessories is available separately.

- Backlit LCD
- Digital temperature display
- Microprocessor controlled
- Ceramic heater element
- Screw-in barrel
- Diaphragm air pump

SPECIFICATIONS	TS-1513
Station Power	140W
Temperature range	160 - 480°C
Desolder Gun	80W (heating power 130W)
Vacuum Pressure	600mm Hg
Dimensions	225(L) x 130(W) x 168(H)mm



1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Desoldering Station 80W	TS-1513	\$199.00	\$178.95	\$158.95
Spare Desoldering Gun	TS-1514	\$54.95	\$49.45	\$43.90
Spare Ceramic Heater	TS-1515	\$16.95	\$14.95	\$13.35
Spare 0.8mm Conical Tip	TS-1517	\$13.95	\$12.35	\$10.95
Spare 1.0mm Conical Tip	TS-1516	\$13.95	\$12.35	\$10.95
Spare 1.3mm Conical Tip	TS-1518	\$13.95	\$12.35	\$10.95
Spare Filter Set of 2	TS-1519	\$1.95	\$1.75	\$1.55
Spare Black Plastic Cap	TS-1520	\$2.95	\$2.60	\$2.30

60W ESD Safe Solder/Desolder Rework Station

Complete solder/desolder station for production and service use. Both the soldering pencil & hot air blower temperature are microprocessor controlled for precise control of dynamic thermal performance where you need it - at the work tip. The control unit has two LCDs that display the set temperature and the actual tip or nozzle temperature in Celsius and Fahrenheit. The temperature is easily adjusted in 1° increments with simple up/down buttons and the soldering/rework functions can be operated independently of each other.

SPECIFICATIONS	TS-1574	AIR PUMP	TS-1574
Recommended use	Trade / Industrial	Heating element power	80W
ESD rated	Yes	Power	45W
Lead-free rated	Yes	Air flow	0.5 - 24 litres/min
Analogue/digital	Digital	Blower power	320W
SOLDERING IRON		Temperature range	160 - 480°C
Power	60W	Operating voltage	240VAC
Temperature range	160-480°C	Dimensions	225(L) x 215(W) x 155(H)mm
Operating voltage	24VAC		



NEW
LOW
PRICE

1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Station 60W	TS-1574	\$299.00	\$269.00	
2.5mm Blower Tip	TS-1575	\$13.95	\$12.35	\$10.95
4.4mm Blower Tip	TS-1576	\$13.95	\$12.35	\$10.95
10 x 10mm Quad Tip	TS-1577	\$19.95	\$17.95	\$15.95
15 x 15mm Quad Tip	TS-1578	\$19.95	\$17.95	\$15.95

SOLDERING STATIONS (CONTINUED)

70W ESD Safe Anti-Static Soldering Station with LED Display

Precision, Japanese manufactured instrument with excellent temperature stability and anti-static characteristics.

Soldering Pencil: Lightweight pencil features a grounded tip, ceramic heater, integrated temperature sensor and very supple silicone rubber grip. The temperature sensor provides precise tip-temperature information to the heater controller, which maintains the selected heat setting with a high degree of accuracy. The tip fits snugly over the heater element providing fast heat transfer and tip temperature recovery during heavy soldering.

- 0.5mm tip supplied

CONTROL UNIT: Includes a digital temperature display unit, rotary temperature control, calibration control and display changeover switch to display either the desired or actual tip temperature. The darkened see-through cover prevents accidental temperature change but allows for easy access when required.

- Control dimensions, weight: 146(L) x 115(W) x 98(H)mm, 1.5kg



SPECIFICATIONS	TS-1440	SOLDERING IRON	TS-1440
Recommended use	Trade / Industrial	Power	70W
ESD rated	Yes	Temperature range	200-480°C
Lead-free rated	Yes	Operating voltage	24VAC
Analogue/digital	Digital	Dimensions	146(L) x 115(W) x 98(H)mm

Japanese
Made



2
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
▲ Solder Station 70W	TS-1440	\$299.00	\$269.00	\$239.00
Replacement sponge	TS-1445	\$7.95	\$6.95	\$6.25
0.2mm Conical Tip	TS-1442	\$19.95	\$17.95	\$15.95
0.5mm Conical Tip	TS-1441	\$19.95	\$17.95	\$15.95

Thermaltronics Curie Heat Technology Soldering Station

This is the outstanding new soldering station mentioned in our intro to this section. It uses a proven technology, Curie point temp sensing with a new twist. The tip is heated by RF induction to bring the tip up to operating temp. The soldering iron tip is the heater. Older Curie point soldering irons like the famous Weller W-TCP used a separate Curie-switch, heater and tip. There are thermocouples, varistors or other temp sensors that only complicate things on inferior irons. The thermal inertia with the Thermaltronics product is far lower.

The system consists of the base power unit which connects to mains 240V. The soldering pencil accepts a cartridge tip (which is also the heating element) and a burn-proof silicon rubber cord. The third element in the system is the pencil iron stand. This stand features a 'dry'-type tip cleaner which is made from machine curled brass and also a standard sulphide free tip sponge.

- Tips can be hot swapped
- Low power idle
- Rapid recovery from soldering load
- No calibration needed
- Can work leaded and unleaded solder
- Constant tip temperature
- Under 10 second heat-up
- No overshoot
- ESD rated



1
YEAR
WARRANTY

Conclusion

This is a very exciting development in soldering technology. We are sure that you will be delighted with this product.

* Note: Not stocked at all stores - but can be ordered.

SPECIFICATIONS	TS-1584	SOLDERING IRON	TS-1584
Recommended use	Serious Hobbyist/Trade/Industrial	Power	50W
ESD rated	Yes	Temperature range	350°C - 398°C (determined by tip)
Lead-free rated	Yes	Output Frequency	470kHz
		Tip to GND Resistance	<2 Ohms DC
		Tip to GND Potential	2mW, true RMS 50 - 500Hz
		Dimensions	155(H) x 110(W) x 92(D)mm, 1.3kg

BONUS

Gold Plated Connector Lead-Free Tip
Stainless Steel Shaft
0.5mm tip is now included with our TS-1584 at no charge!



*Tested & certified by TUV-SUD

	Cat.	Qty 1+	Qty 3+	Qty 6+
▲ Solder Station (including 0.5mm tip)	TS-1584	\$359.00	\$319.00	\$279.00
Thermaltronics replacement iron	TS-1585	\$129.00	\$115.95	\$102.95
0.51mm Conical Tip 350°C - 398°C <small>NEW 2017</small>	TS-1586	\$29.95	\$26.95	\$23.95
0.2mm Conical Sharp Tip* 350°C - 398°C	TS-1589	\$34.95	\$31.95	\$27.95
1.0mm Conical Tip 350°C - 398°C	TS-1587	\$29.95	\$26.95	\$23.95
3.2mm Chisel Tip 350°C - 398°C	TS-1588	\$29.95	\$26.95	\$23.95
5.0mm Chisel Tip* 350°C - 398°C <small>NEW 2017</small>	TS-1590	\$29.95	\$26.95	\$23.95

SHOW US YOUR BUILD COMPETITION

Dick, who shops at our
Jaycar Mona Vale store...

My modern workshop.
I go to Jaycar at Mona Vale.
Regards, Dick Smith

"We think Dick might be in the
market for a new soldering iron!!"

Gary Johnston



SOLDERING IRONS - 240V

SOLDERING IRONS - 240 VOLT							COMPARISON GUIDE			
	TS-1465	TS-1468	TS-1554	TS-1540	TS-1470	TS-1475	TS-1430	TS-1485	TS-1536	TS-1538
										
Voltage	240V	240V	240V	240V	240V	240V	240V	240V	12VDC	7.2VDC
Power (Watts)	25W	25W	20W/130W	30W	40W	40W	80W	80W	30W	16W
Temperature Range	380°C	360-400°C	420°C	200-450°C	420-450°C	470°C	320°C	530°C	430°C	350°C
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25W Soldering Iron

Ideal for the hobbyist and handy person. Has a stainless steel barrel and orange cool grip, impact resistant handle.

- Spare tip available - TS-1466

DURATECH

Our most popular iron!



	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron	TS-1465	\$13.95	\$12.35	\$10.95
Spare tip	TS-1466	\$3.95	\$3.45	\$3.15

Soldering Irons with LEDs

Brilliant! These soldering irons have built-in bright white LEDs so you can see what you're soldering more clearly for a better solder joint! They can be optionally switched on and off using the integrated switch.

- Spare tip available TS-1622
- 0.5mm conical tip

Colour may vary to one shown

	Cat.	Qty 1+	Qty 3+	Qty 6+
25W	TS-1468	\$19.95	\$17.95	\$15.95
40W	TS-1470	\$24.95	\$22.45	\$19.95
Spare tip	TS-1622	\$8.95	\$8.25	\$6.95

20/130W Turbo Soldering Iron

Sometimes you need that extra bit of heat in your soldering. Push the little red button on this iron and you get a lot more power - from 20 watts to 130 watts to be precise. Weller-style removable barrel, plated tip and ceramic element.

- Spare tips available: TS-1555 - 0.5mm conical tip, TS-1556 - 1mm conical tip, TS-1557 - 2mm chisel

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron	TS-1554	\$17.95	\$16.10	\$14.30
0.5mm conical tip	TS-1555	\$4.95	\$4.45	\$3.90
1mm conical tip	TS-1556	\$4.95	\$4.45	\$3.90
2mm chisel tip	TS-1557	\$4.95	\$4.45	\$3.90

40W Soldering Iron

Ideal for the hobbyist and handy person. Has a stainless steel barrel and orange cool grip impact-resistant handle.

- Fully electrically safety approved.
- Spare tip to suit use Cat. TS-1476

DURATECH

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron	TS-1475	\$18.95	\$16.95	\$14.95
Spare tip	TS-1476	\$4.95	\$4.45	\$3.90

30W Temperature Controlled Soldering Iron

If your budget doesn't extend to a soldering station, you can still have temperature control. This iron is adjustable with a dial on the handle.

- It has a temperature range of 200 - 450°C, high enough for silver soldering if needed
- Plated long-life tip.
- Spare tip available TS-1542 - 1mm conical tip

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron	TS-1540	\$29.95	\$26.95	\$23.95
1mm Conical Tip	TS-1542	\$4.95	\$4.45	\$3.90

80W Soldering Iron

Ideal for the hobbyist and handy person. Has a stainless steel barrel and orange cool grip, impact resistant handle.

- Ideal for heavy electrical work, lugs, etc.
- Fully electrically safety approved.
- Spare tip to suit use Cat. TS-1486

DURATECH

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron	TS-1485	\$22.95	\$20.35	\$18.35
Spare tip	TS-1486	\$8.95	\$7.95	\$6.95

80W Goot Soldering Pencil - 240V

This high quality soldering iron is made in Japan by Goot.

This soldering iron offers exceptional heat recovery. The ceramic heater is automatically controlled by the heating load of the tip. With its high insulation and low current leakage, soldering of precision flat ICs and CMOS is safe. The heater on/off control uses a zero-volt switch circuit which reduces electrical noise.

- Tip temperature is set at 320°C
- The power lead is made from silicone rubber - very flexible
- The handle incorporates a ribbed rubber piece for extra grip
- Electricity Safety Approval Number SAITE20185

	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Pencil	TS-1430	\$79.95	\$71.95	\$63.95
0.5mm Conical Tip (as supplied)	TS-1432	\$19.95	\$17.95	\$15.95
0.3mm Conical Tip	TS-1434	\$19.95	\$17.95	\$15.95
3.0mm Chisel Tip	TS-1436	\$19.95	\$17.95	\$15.95

SOLDERING STARTER KITS

My First Soldering Iron



At last you can have your own soldering iron with minimal adult supervision (min 12 years+). It includes a full power iron with long-life tip, a spare tip, stand for the iron (when it's hot), metal solder removal sucker and a generous portion of 1mm solder wire in a handy dispenser tube.

This set will become your best friend in the world of electronics!



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Starter Kit	TS-1651	\$24.95	\$22.35	\$19.70

25W Soldering Iron Starter Kit with DMM



The ideal starter package for young electronics enthusiasts or the home handyman, this kit contains everything needed for basic electronics work. The kit includes a soldering iron, digital multimeter, and set of hand tools suitable for working on small items such as electronics projects or automotive circuits.

- Digital multimeter
- De-soldering tool with spare tip
- Phillips head screwdriver
- Side cutters
- 25W soldering iron with spare tip
- Lead free solder
- Flat head screwdriver
- Long nose pliers

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
25W Iron Kit	TS-1652	\$39.95	\$35.90	\$31.90
Spare tip to suit	TS-1622	\$8.95	\$8.25	\$6.95

6 Piece Soldering Tool Kit

This kit provides a selection of hand-tools and accessories invaluable for soldering work. There's a Phillips screwdriver, a pair of spring-loaded tweezers, and a heatsink clip for soldering heat-sensitive components. Three assorted double-ended tools are also included for poking, scraping, leg-bending, and even a wire-brush for flux-removal. A great assortment, supplied in a handy case.



Supplied in handy case



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
6 Piece Kit	TH-1851	\$14.95	\$13.45	\$11.95

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'. Conditions apply - see page 528 for details.

Tips for Superseded Irons & Stations

Tips To Suit WELLER Soldering Iron (various models)



▲	Weller Part	mm	°C	Cat.	Qty 1+	Qty 3+	Qty 6+
	PTA6	1.6	315	TS-1352	\$21.95	\$19.75	\$17.55

FUME EXTRACTOR

Solder Fume Extractor

Removes dangerous solder fumes from the work area. Suitable for use in production lines, service centres, R&D workbenches or the hobbyist. It incorporates a ball bearing high volume fan to maximise airflow which is directed upwards at the rear of the unit to aid in safe dispersion of fumes. ESD safe.

- Spare filters, pack of 5 - sold separately Cat. TS-1581
 - Dimensions: 260(H) x 200(W) x 170(D)mm
- Don't pay silly prices elsewhere. This one works fine.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Fume Extractor	TS-1580	\$69.95	\$62.95	\$55.95
Spare Filters - Pack of 5	TS-1581	\$9.95	\$8.75	\$7.75

BATTERY POWERED IRONS

30W 12VDC Soldering Iron - with Cigarette Lighter Plug



This 12V 30W soldering iron features a fused cigarette lighter plug lead to allow you to power it from the car cigarette lighter socket. Ideal for automotive soldering. Metal sheet solder stand included.

- Dimensions: 205(L) x 35(Dia.)mm
- Lead length: 1.5 metre



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
30W	TS-1536	\$19.95	\$17.95	\$15.95

16W 7.2VDC Soldering Iron - Battery Operated



Limited Stock

Find a new use for your spare 7.2V rechargeable battery pack out of your R/C car. This convenient soldering iron is designed to be powered off any 7.2V rechargeable battery, commonly used in Electric Remote Controlled Cars. The iron is terminated with a 2 pin nylon plug commonly used with Electric R/C Car batteries, and has an inline power switch for that added convenience.

- Suits any Ni-Cd, Ni-MH, Li-ion, Li-Po 7.2V rechargeable battery with compatible connector
- Connector to suit, use PP-2020
- Lead length: 1.5 metre
- Dimensions: 205(L) x 35(Dia.)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
16W	TS-1538	\$14.95	\$13.45	\$11.95

6W Soldering Iron - Battery Powered



We have been surprised by the popular acceptance of this product, considering its modest power rating. Don't expect too much, but it will re-solder a dry joint or fix a solder lug, etc.

It is ideal in potentially explosive situations, such as a bilge, or where petrol fumes may be present. Reaches full temp in about 10 seconds.

- Uses 3 x AA batteries (not included)
- Safety cover that locks the switch to "Off" so it won't discharge inside your tool box.
- Dimensions: 175(L) x 36(W) x 18(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
6W	TS-1535	\$19.95	\$17.95	\$15.95

GAS SOLDERING IRONS

COMPARISON GUIDE

Gas soldering irons have been around for a while now. No matter what gas iron you choose from these pages, you will find a great portable iron.



See page 178 for our Butane Gas

	TS-1111	TS-1305	TS-1310	TS-1320	TS-1112	TS-1113	TS-1318	TS-1328
Soldering Iron	•	•	•	•	•	•	•	•
Soldering Iron Kit					•			
Temp - Soldering Iron		450°C	580°C	580°C		500°C	580°C	580°C
Temp - Hot Blow						350°C		
Temp - Torch						1300°C		
Power (Watts)		10W/60W	15W/75W	25W/125W			15W/75W	25W/125W
Spare Catalyst	•							
Soldering Tips - Kit					•			
Hot Air Blow Tip			•	•		•	•	•
Hot Air Deflector							•	•
Hot Knife Tip			•	•			•	•
Rope Cutter Tip			•		•			
Flame Tip			•		•		•	
1.0mm Chisel Tip			•	•				
1.0mm Conical Tip	•	•						
2.4mm Double Flat Tip							•	•
2.4mm Chisel Tip		•	•	•				
3.0mm Flat Tip						•		
4mm Chisel Tip						•		
4.8mm Double Flat Tip								•
4.8mm Chisel Tip		•	•	•				
Page	177	178	178	178	177	177	178	178

GAS SOLDERING IRONS

Low Cost Gas Soldering Iron

A low cost alternative, this butane gas soldering iron features adjustable tip temperature and a fold-out stand. Remove the soldering tip and you have a flame torch for heatshrink etc. Great for soldering, cutting plastic, or heat shrinking plastic.

- Dimensions: 210(L) x 20(dia)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron - Gas	TS-1111	\$26.95	\$23.95	\$21.35
Spare Catalyst	TS-1104	\$14.95	\$13.35	\$11.70
1mm Conical Tip	TS-1105	\$4.95	\$4.45	\$3.90
Butane Gas - 150g	NA-1020	\$4.95		

Gas Soldering Iron / Torch Kit

Everything you need to solder, silver solder, braze, heatshrink, strip paint etc. The iron is refillable with standard butane gas and has an on/off switch and a built-in stand for safety. Extra soldering, torch and cutting tips are included, all housed in a moulded storage case. Replacement gas: NA-1020.

- 3 soldering tips,
- 1 rope cutter,
- 1 torch attachment
- 178mm long



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Soldering Iron/Torch Gas	TS-1112	\$39.95	\$35.90	\$31.90
Butane Gas - 150g	NA-1020	\$4.95		

Pro Gas Soldering Tool Kit

A sturdy, portable, self-igniting butane powered gas soldering iron tool kit with 3 tips. Produces a 1300°C adjustable flame for low end brazing, tin/plastic melting, automotive repair work, welding and of course heat shrinking. Supplied with 3 interchangeable metal tips for PCB work. A handy retractable stand as well as being supplied in a plastic carry case that includes a cleaning sponge, extra tips, a deflector and a cap for the soldering iron.

Spare tips available separately:

TS-1116 - 3mm Flat
TS-1117 - 4mm Chisel
TS-1118 - Blower Tip

Butane gas required - use
NA-1020 on page 178

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Pro Gas Soldering Tool Kit	TS-1113	\$69.95	\$62.95	\$55.95
3mm Flat Tip	TS-1116	\$4.95	\$4.45	\$3.90
4mm Chisel	TS-1117	\$4.95	\$4.45	\$3.90
Blower Tip	TS-1118	\$12.95	\$11.35	\$10.35
Butane Gas - 150g	NA-1020	\$4.95		



SPECIFICATIONS	TS-1113
Operating time	80-100 min (on minimal flame)
Gas capacity	20ml
Ignition	Internal Piezo Crystal igniter
Weight	115g without gas
Temperature of torch	Up to 1300°C
Temperature of hot blow	Up to 650°C
Temperature of soldering	Up to 500°C
Case dimensions	236(L) x 32(W) x 37(D)mm



GAS SOLDERING IRONS - PORTASOL

A leading brand recognised worldwide. Portasol® products are designed and manufactured in Ireland, to the highest quality standards. Since commencing operation in 1983, they have forged their way into the market with some of the most rugged & reliable gas powered soldering & heating tools in the world. They utilise catalytic combustion (flame tips excluded), which converts the gas flame into infrared radiation. It is a safe, flameless way of heating the tips evenly and continuously. They all use standard butane gas, and have a variety of tips available to support a wide range of applications.

portasol®

Portasol® Technic Gas Soldering Iron

The Portasol® Technic combines compact power, and convenient reliability, making it one of the most versatile gas soldering irons available. It offers a run time of around 60 minutes, and tip temperature is adjustable up to 450°C. With equivalent electrical power of between 10 and 60 Watts, it is ready to tackle just about anything. The protective end cap features a built in flint type igniter, and if the gas is left on, it will turn it off when replaced. If a compact, versatile and reliable gas iron is what you're after, then the Portasol® Technic is for you.



SPECIFICATIONS	TS-1305	TIPS TO SUIT	
Operating time	60 min (approx).	1.0mm Conical	TS-1306 \$23.95
Refill time	10 sec (approx).	2.4mm Chisel	TS-1307 \$23.95
Ignition	Flint igniter in end cap.	4.8mm Chisel	TS-1308 \$23.95
Dimensions	170(L) x 19(Dia)mm.		
Weight	60g without gas.		



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1305	\$59.95	\$53.95	\$47.90

Portasol® Pro Piezo Gas Soldering Iron

The Portasol® Pro Piezo is a powerful gas soldering iron featuring an adjustable temperature control allowing soldering tip temperatures up to 580°C. With equivalent electrical power of between 15 and 75 Watts, there is little that's not possible with this beauty. It incorporates a viewing window at the end of the gas tank, to keep an eye on the fuel level. The fuel tank fills in around 20 seconds, and will provide approximately 45 minutes of run time. Ignition is via the built in Piezo crystal mechanism, and the end cap provides safety gas shut off when replaced. The Portasol® Pro Piezo is a dream to use, and will not let you down.

• 2.4mm double flat tip supplied.



SPECIFICATIONS	TS-1310	TIPS TO SUIT	
Operating time	45 min (approx).	1.0mm Chisel	TS-1311 \$23.95
Refill time	20 sec (approx).	2.4mm Chisel	TS-1312 \$23.95
Ignition	Internal Piezo crystal igniter.	4.8mm Chisel	TS-1313 \$23.95
Dimensions	178(L) x 22(Dia)mm.	Hot Air Blow	TS-1314 \$23.95
Weight	75g without gas.	Hot Knife	TS-1315 \$23.95
		Flame	TS-1316 \$23.95

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1310	\$99.95	\$89.95	\$79.95

Portasol® Pro Piezo Gas Soldering Tool Kit

This kit contains a Portasol® Pro Piezo Gas Soldering Iron and the following.

- Quality storage case
- 2.4mm double flat tip (TS-1312)
- Hot knife tip (TS-1315)
- Flame tip (TS-1316)
- Cleaning sponge and tray
- Hot air blow (TS-1314)
- Hot air deflector



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1318	\$129.00	\$115.95	\$102.95

Butane Gas

Use it for filling up your gas soldering iron, flame torches, cigarette lighters, etc. Includes five different adaptors, which cover most different gas valves. Includes filling instructions.

- Enough gas for many many refills
- Cannot be sent by post



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	150g	NA-1020 \$4.95	\$4.45	\$3.95



See page 180 for solder



Portasol® Super Pro Gas Soldering Iron

The Portasol® Super Pro is the big brother of all irons in the range. It features adjustable tip temperature up to 580°C, with equivalent electrical power of between 25 and 125W! 125W may seem somewhat excessive to some. You don't need a V8 to drive around town, but it's nice to know that the power is there when it's needed isn't it? Ignition is achieved with the internal Piezo crystal mechanism, and run time is around 2 hours on a 30 second refill. The stainless steel finished gas tank features a viewing window to keep an eye on fuel level, & the protective end cap also acts as a safety cut off for the gas valve control when replaced. With the various tips available & huge power at hand, no job is a match for the Portasol® Super Pro.

• 2.4mm tip supplied.



SPECIFICATIONS	TS-1320	TIPS TO SUIT	
Operating time	120 min (approx).	1.0mm Chisel	TS-1321 \$24.95
Refill time	30 sec (approx).	2.4mm Chisel	TS-1322 \$24.95
Ignition	Internal Piezo crystal igniter.	4.8mm Chisel	TS-1323 \$24.95
Dimensions	234(L) x 25(Dia)mm.	Hot Air Blow	TS-1324 \$24.95
Weight	135g without gas.	Hot Knife	TS-1325 \$24.95

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1320	\$119.00	\$106.95	\$94.95

Portasol® Super Pro Gas Soldering Tool Kit

Features 120 minute run time, 30 second fill, maximum 580°C temperature and 40 second heat up. This kit contains a Portasol® Super Pro Gas Soldering Iron and the following.

- Quality storage case
- Hot air blow (TS-1324)
- Cleaning sponge and tray.
- Hot knife tip (TS-1325)
- 2.4mm double flat tip (TS-1322)
- Hot air deflector
- 4.8mm double flat tip (TS-1323)



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1328	\$159.00	\$142.95	\$126.95

GAS TORCHES & COMBOS

Pencil Butane Torch

Pocket sized gas torch for heatshrinking, soldering etc and uses standard butane gas. Adjustable flame, all metal construction.

- Dimensions: 205(L) x 13(Dia)mm



Note: Does not self ignite



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1667	\$11.95	\$10.70	\$9.50

Compact Pocket Size Gas Blowtorch

At only 95mm high, this product is amazing. It is a fully self-contained Butane 1300°C portable blow torch. It has simple press button Piezo ignition, flame control and safety lock. The unit can be recharged with a suitable Butane refill (such as the NA-1020). It will take 7g of gas which will give 30 minutes of use at mid setting. Has protective burner cap.

Ideal for:

- Low temp silver soldering
- Heat Shrinking
- Soft soldering ("sweating")
- Hobby use
- Food preparation etc.

Dimensions:

95(H) x 55(L) x 26(W)mm, weight 45g (dry)

For suitable Butane Gas use NA-1020

For Silver Solder use NS-3045



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1610	\$24.95	\$22.45	\$19.95

Piezo Ignition Butane Gas Torch

Perfect for silver soldering, brazing, heat treating, heat-shrinking, paint removal etc. It's able to produce a flame about 100mm long, so is capable of more than light-duty work. The 64ml tank gives a burn time of 60-70 minutes and uses any butane gas. It also has an adjustable flame, a child-proof piezo ignition button and a stand so you don't knock it over and burn the house down.

- Piezo ignition with safety lock
- 1300°C adjustable flame
- Butane gas refill: NA-1020
- Dimensions: 150(H), base 69 x 69mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1660	\$39.95	\$35.90	\$31.90



See our Heatshrink Pack with Gas Blower on page 164

Gas Soldering & Heatshrink Kit

Excellent value and a handy kit to have close at hand for those quick and urgent repairs. Includes many of the necessary accessories for your wiring and soldering needs, making it an ideal kit for the home handyman, enthusiast or electrician. Supplied in a hard plastic carry case.

This kit contains:

- Pro Gas Soldering Iron with built-in stand, and cap. Spare tips included: Chisel tip, anvil tip, flat tip, deflector, solder, cleaning sponge
- 3mm Desolder Braid (NS-3020)
- 115mm Stainless Steel Side Cutters (TH-1890)
- Heavy Duty Wire Stripper/Cutter/Crimper with Wire Guide (TH-1827)
- 28 Piece Screwdriver set
- Heatshrink assortment:
 - 1.5mm - 20 x black, 5 x red, 5 x clear
 - 2.5mm - 10 x black, 3 x red, 3 x clear
 - 3.0mm - 8 x black, 2 x red, 2 x clear
 - 5.0mm - 7 x black, 2 x red, 2 x clear
 - 6.0mm - 3 x black, 1 x red, 1 x clear
- Straight Demagnetised 116mm Long Tweezers, Curved Demagnetised 121mm Long Tweezers
- Small 9 x LED Torch 26(Dia.) x 84mm (Requires 3 x AAA batteries)
- Case dimensions: 130(W) x 150(D) x 70(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1115	\$129.00	\$115.95	\$102.95

Gas Plastic Welding Kit

Great for welding or repairing plastic parts and components. Suits a wide variety of uses from model making to automotive use. eg. repairing vehicle bumper bars, broken headlight fittings, cracks, fractures, deep scratches, etc. Supplied in a handy carry case. For suitable gas use NA-1020 150g Butane.

Kit contains:

- Gas iron with stainless housing
- 1 x 9mm and 1 x 12mm plastic welding tip
- Blowcase with upper case sponge
- Copper Brush
- Screwdriver
- Iron Rod
- Plastic weld material: 6 x 170mm (PP), 6 x 170mm (PE), 6 x 170mm (PC), 6 x 170mm (ABS)
- 3 x 100x60mm Stainless steel mesh for reinforcement
- Case dimensions: 315(L) x 245(W) x 70(D)mm



Limited Stock

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TS-1331	\$99.95	\$89.95	\$79.95

3 in 1 Heat Blower & Soldering Iron

A handy 3-in-1 unit with flame or flameless heat blower and soldering iron function. Great for general heating, drying, melting, soldering, heat shrinking etc. It also features adjustment for temperature control, Piezo ignition, child resistant latch and uses butane gas. The tip has a sturdy cap for when not in use. Ideal for hobbyists and professionals alike.



Spare Tip available: TH-1603

Butane gas required - use NA-1020

SPECIFICATIONS	TH-1604
Burning time	55-95min
Gas capacity	10ml
Temperature of hot blow	Up to 500°C
Temperature of soldering	Up to 450°C
Dimensions	144(L) x 35(W) x 23(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Gas Soldering Iron	TH-1604	\$29.95	\$26.95	\$23.95
1mm Conical Tip	TH-1603	\$3.95	\$3.45	\$3.15

3 in 1 Mini Gas Soldering Tool Set

A handy gas soldering iron with flame or flameless heat blower function. Great for general heating, drying, melting, cutting, soldering, heat shrinking etc. It also features adjustment for temperature control, Piezo ignition, retractable stand, visible gas tank and child resistant latch. The tip has a sturdy cap for when not in use.

Carry case includes 1mm tip, 3mm chisel tip, 5mm angle tip, hot knife tip, 1mm solder hobby pack, cleaning sponge and tray.

Spare 1mm Conical Tip available: TH-1603

Butane gas required - use NA-1020



SPECIFICATIONS	TH-1606
Burning time	55-95min
Gas capacity	7ml
Power range	25W to 70W
Flame temp	Up to 1300°C
Iron dimensions	148(L) x 35(W) x 23(D)mm
Case dimensions	175(W) x 125(D) x 33(H)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
3 in 1 Mini Gas Soldering Tool Kit	TH-1606	\$44.95	\$40.45	\$35.90
1mm Conical Spare Tip	TH-1603	\$3.95	\$3.45	\$3.15

Gas Blow Torch with Butane Gas

Useful for lighting a combustion fireplace, out camping, and a range of handyman and hobbyist functions. The ergonomically designed torch features an adjustable flame, lit with an integrated piezo igniter. There's no tiny gas-cartridge that lasts only a few minutes, with constant refilling. This unit attaches directly onto the gas canister, so you can just get the job done. You'll get more than 2hrs usage from a single can.

- One-touch automatic piezo ignition
- Ergonomic design
- Adjustable temperature

SPECIFICATIONS	TH-1632
Gas Consumption	100g/hr
Included Gas	Butane 227g
Weight	174g (torch unit)
Dimensions	180(L) x 60(W) x 35(H)mm



NEW 2017



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
227g	TH-1632	\$34.95	\$31.45	\$27.95

SOLDER & ACCESSORIES

DURATECH Solder

60% TIN / 40% LEAD

Two sizes available, 1.0mm and 0.71mm diameter

- 0.71mm is ideal for work with ICs & all fine soldering
- Both types are resin cored
- Hobbypacks are supplied in easy to use cannisters



▲ Size	Roll Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	1kg	NS-3002	\$69.95	\$62.95	\$55.95
1.00mm	1kg	NS-3015	\$69.95	\$62.95	\$55.95

▲ Size	Roll Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	200g	NS-3005	\$15.95	\$14.35	\$12.75
1.00mm	200g	NS-3010	\$15.95	\$14.35	\$12.75

HOBBYPACK CANNISTERS

- Contains 15-20 grams weight.



▲ Size	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	NS-3008	\$1.95	\$1.75	\$1.55
1.00mm	NS-3013	\$1.95	\$1.75	\$1.55

Lead-Free Solders

99.3% tin, 0.7% copper lead-free.

Sizes for every application from hobby to industry.



▲ Size	Roll Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	200g	NS-3088	\$24.95	\$22.45	\$19.95
1.00mm	200g	NS-3094	\$24.95	\$22.45	\$19.95

▲ Size	Roll Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	500g	NS-3090	\$54.95	\$49.45	\$43.95
1.00mm	500g	NS-3096	\$54.95	\$49.45	\$43.95

HOBBYPACK CANNISTERS

- Contains 15-20 grams weight.



▲ Size	Cat.	Qty 1+	Qty 3+	Qty 6+
0.71mm	NS-3086	\$2.95	\$2.75	\$2.30
1.00mm	NS-3092	\$2.95	\$2.75	\$2.30

"Silver" Solder

This product is a wire-type solder which is a low temperature version of silver solders of the past. Silver solder is used to make mechanically sound joints similar to brazing but without the need for an oxy-acetylene or oxy-butane torch. It is far, far stronger than tin/lead solder. The product is basically pure tin with around 4% silver. It contains no lead or cadmium. It melts at 221°C so could be actually soldered with a very hot soldering iron but best results are with a butane type blowtorch. The product includes an adequate amount of liquid flux which is basically zinc chloride, water, ammonia and other chlorides. The flux is an eye irritant so safety goggles should be worn.

- 14g solder with 14g of flux
- Wire diameter: 1.16mm approx
- MSDS supplied
- Coil length: 1.8m approx

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
14g Solder + 14g Flux	NS-3045	\$19.95	\$17.70	\$15.70



Solder Flux Pen - 12ml



A quick drying, no-clean flux for use when removing or replacing surface mount components. Applying the flux to solder joints will aid re-flow when heating the joint to remove the component, or it can be applied to bare copper or tinned tracks providing excellent solderability.

- Dries in 5 to 10mins
- Handy 12ml pen with chisel tip

▲	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
12ml		NS-3036	\$11.95	\$10.70	\$9.50

3mm Desolder Braid

A specially treated piece of braid for removing solder from a PCB. Place the braid over the solder and apply soldering iron to efficiently remove solder. 3mm wide, 1500mm long.



▲	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
3mm wide	1500mm	NS-3020	\$3.25	\$2.90	\$2.60

Goot Desolder Braid

High quality Goot brand Gootwick, made in Japan
Contains wash-free RMA flux, conforms to MIL-F-14256F

- Plastic reels
- 1.5m long

Japanese Made



▲	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.5mm wide	1500mm	NS-3026	\$5.95	\$5.25	\$4.75
2.0mm wide	1500mm	NS-3027	\$5.95	\$5.25	\$4.75
3.0mm wide	1500mm	NS-3028	\$5.95	\$5.25	\$4.75

Solder Sucker & Blower Bulb

A quick & simple bulb type solder sucker that is cheap, compact and effective. Buy two or three and you will always have one handy

- Approximately 50(D) x 110(L)mm
- Versatile! Suck or blow



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Solder Sucker	TH-1850	\$6.95	\$6.25	\$5.50

Solder Flux Paste - 56g Tub

A mildly-activated agent to provide superior fluxing ability, which enables you to produce high quality soldered joints, and reducing solder waste. The active ingredients in DeoxIT® Rosin Soldering Flux are non-ionic and non-conductive, and ideal for situations when post-soldering cleaning is not possible, and the residue must be highly insulating.

- Non-flammable
- Non-corrosive



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
56g	NS-3070	\$15.95	\$14.35	\$12.75

Plastic Desolder Tool

ABS plastic body with strong suction. Very easily cleaned. Total length including tip 195mm.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Tool	TH-1860	\$11.95	\$10.70	\$9.50
Spare tip	TH-1861	\$3.95	\$3.45	\$3.15

Metal Desolder Tool

Made of lightweight metal and has strong suction.

- Constant vacuum force
- Replacement tip (Teflon)
- Cleans itself with each action
- Total length incl tip - 195mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Tool	TH-1862	\$16.95	\$14.95	\$13.35
Spare tip	TH-1863	\$4.95	\$4.45	\$3.90

Deluxe GOOT Desoldering Tool



High quality GOOT brand desoldering tool. Japanese built quality and a large vacuum chamber for strong suction.

- Large vacuum chamber - Total length: 330mm

Japanese Made

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Tool	TH-1856	\$27.95	\$24.95	\$22.35
Spare tip	TH-1857	\$8.95	\$7.95	\$6.95

SOLDER PASTE

Solder Paste SMD Syringe - 15g



Ideal for surface mount work and rework, solder paste provides a quick and easy soldering solution. Supplied in a syringe for easy application, simply apply it to the soldering pads, put your components in place and heat it with your soldering iron. Solder paste can go off in storage: we've found a local supplier so you can always be confident that the paste you get will be fresh. 63% tin 37% lead. Solder paste is best kept cool for long life and should be kept refrigerated. Please ask sales staff for this product, as it will be kept in refrigerated storage, not on display. Dimensions: 120(L) x 15mm(Dia)

	Cat.	Qty 1+	Qty 3+	Qty 6+
▲ 15g	NS-3046	\$12.95	\$11.35	\$10.35

Lead Free Solder Paste SMD Syringe - 10g



Lead free solder paste syringes provide a quick and easy soldering solution for your surface mount work and rework. The superior wetting ability of this paste results in bright, smooth and shiny solder joints with lead free alloys. Supplied in a syringe for easy application, simply apply to the soldering pads, put your components in place and heat it with your soldering iron or hot air rework tool.

	Cat.	Qty 1+	Qty 3+	Qty 6+
▲ 10 grams	NS-3048	\$13.95	\$12.55	\$11.15

STANDS, CLEANERS & PCB HOLDERS

Soldering Iron Stands

ECONOMY

General-purpose stand for just about any electronics soldering iron. It has a large, thirsty tip-cleaning sponge & pressed metal base.

- Base: 84(W) x 130(D) x 25(H)mm
- Holder: 105(L) x 40(W)mm
- Complete height: 120mm



DELUXE

Ideal for heavier soldering irons. It features a hefty cast iron base with removable sponge tray and twin spiral iron holder.

- Base: 78(W) x 115(D) x 30(H)mm
- Holder: 135(L) x 45(W)mm
- Complete height: 145mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
▲ Economy Stand	TS-1502	\$9.95	\$8.75	\$7.75
Spare sponge to suit TS-1502	TS-1503	\$2.75	\$2.45	\$2.15
▲ Deluxe Stand	TS-1507	\$16.95	\$14.95	\$13.35
Spare sponge to suit TS-1507	TS-1508	\$3.95	\$3.45	\$3.15

Solder Stand with Solder Dispenser

Every technician needs one of these on their workbench! It will hold our solder reels and the solder is fed through the guide. It has a handle, so it can easily be carried, and it can be wall mounted to be right there where you always need it. The base is super heavy so even when the solder reel is nearly empty it will feed ok.

- Shaft diameter is 16mm and will hold our 1kg rolls
- Weight 620g
- Dimensions: 90(L) x 100(W) x 110(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	TS-1504	\$19.95	\$17.95	\$15.95

Goot Soldering Iron Tip Cleaner

The "curly brass" insert doesn't need to be kept wet and cleans without damaging the tip. Uniform iron temperature ensures consistent joint quality and reduces cycle times. It's made from a heavy-duty heat-resistant rubber base that won't slip around on the bench, is static-safe and is also suitable for lead-free solders.

- Supplied with spare insert
- Dimensions-Insert: 45(Dia) x 30(H)mm / Overall: 58(Dia) x 58(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	TS-1510	\$17.95	\$15.95	\$14.35

Soldering Iron Tip Cleaning Paste

A healthy tip makes for easier soldering and better heat transfer. This tip contains powdered solder and non-corrosive flux, so all you need to do is dip your hot soldering tip in, and it will clean and tin in one simple action.



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲ 15g Tin	TS-1512	\$12.95	\$11.35	\$10.35

PCB Holder

Holds a PCB up to 200 x 140mm in size. The PCB is held in place by spring clamps and can be rotated through 360° at increments of 15°. The base is heavy with well-balanced centre of gravity and built-in rubber feet to ensure you have a firm working surface. Suitable for working with different shaped components, connectors, soldering strips, etc.

- Max holding size: 200(L) x 140(W)mm
- Dimensions: 300(L) x 165(W) x 125(H)mm, 450g



Note: PCB not included

	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	TH-1980	\$19.95	\$17.95	\$15.95

PCB Holder with LED Magnifier

Ideal aid for PCB assembly, soldering work, model making and any application where a third hand is needed. This helping hand has a magnifying glass with LED light that provides continuous light for up to 10 hours. The two strong alligator clips can be adjusted in numerous ways to hold the board as you solder. Heavy cast iron base ensures added stability. Comes complete with a soldering iron holder.

- LED: 2 x White LED
- Lens size: 90(Dia.)mm
- Lens magnification: 2X
- Power: Requires 3 x AAA batteries
- Dimensions:

Overall height: 190mm
Base dimensions: 114(L) x 75(W) x 29(H)mm

See page 224 for
Clamp Magnifiers



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	TH-1987	\$19.95	\$17.95	\$15.95

LED Magnifying Lamp with Third Hand

The multi-purpose tool offers an excellent all round solution, ideal for working on small to medium PCBs, components, soldering etc. The magnifying lamp with integrated 3rd hand is intended for illuminating work areas and it is equipped with a magnifying glass. This device also comes with a soldering iron stand, alligator clips, soldering wire spool holder, sponge as well as a cleaning ball. Powered by 4 AA batteries (not supplied).

- Magnifying glass lens size 90mm
- Magnification: 3x
- LED illumination: 16 LEDs
- Neck (for magnifying glass) length: 265mm
- Neck (for alligator clips) length: 250mm
- Sponge size: 30 x 50mm
- Base size: 190 x 170mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	TH-1989	\$44.95	\$40.45	\$35.95

DISCOUNT TRADE CARD



If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to

substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type and quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

SPRAYS & AEROSOLS

NOTE: AEROSOLS CANNOT BE SENT BY AIR



Lithium Grease

Long-lasting heavy duty lubricant grease for bearings, sliding mechanisms, battery terminals, chains, sprockets or other moving parts. White in colour so it forms a kind of thick, milky sea in the lubricated area. Reduce friction, protects against corrosion.



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 400g	NA-1015	\$9.95	\$8.75	\$7.75

INOX-MX3 Lubricant, Corrosion Inhibitor

This product is similar to popular water displacement products EXCEPT that it does not contain silicone or kerosene based solvents etc. Indeed, it is so benign it can be used around food. It is also ideal for seized nuts or screws, freeing up hinges, door locks, as a cutting or tapping & other machining agent. As the product is non-conductive, it is ideal for removing moisture from car distributors, switches, potentiometers, solenoids etc. It does not dry or wash out in water. You will be delighted with this product.



Two sizes are available:

Cat. NA-1022 125g Pump Pack (can be sent by post)

Cat. NA-1024 300g Aerosol Spray (can't be sent by post)

	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 125g - Spray Pump	NA-1022	\$10.95	\$9.85	\$8.75
▲ 300g - Spray Can	NA-1024	\$15.95	\$14.35	\$12.75

PTFE Dry Lubricant Spray

This water displacing PTFE Lubricant is formulated to provide a dry, lubricating film that is perfect for use with electronic & mechanical assemblies, chains & sprockets, rollers, runners, & power tools etc. It prevents rusting on ferrous metals and helps loosen stiff or sticking parts. The spray can be used in automotive, marine and household environments.



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 175g	NA-1013	\$17.95	\$15.95	\$14.35

Contact Cleaner Lubricant

A blend of non CFC solvents and RF contact treatment oil. Ideal for cleaning and lubricating non-arcing contacts and mechanisms. Can be used for cleaning & lubricating all types of contacts. Safe on most plastics.



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 175g	NA-1012	\$11.50	\$10.35	\$8.95

Circuit Board Lacquer

Non CFC ozone safe propellant. Premium quality flexible coating to protect printed circuit boards from humidity and environmental attack. Special solder through lacquer so previously coated boards can be soldered.



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 175g	NA-1002	\$11.50	\$10.35	\$8.95

Electronic Circuit Board Cleaner

Non CFC ozone safe propellant. It may not be obvious, but many circuit problems occur when flux and other contaminants (even finger prints) remain on the PCB causing 'leakage' between tracks. If you work with RF, high impedance (i.e. FET Op-Amps etc), ioniser or other circuits, PCB cleanliness is a MUST. This is a spray that dissolves flux residues & grime leaving the track work and board absolutely clean. We then recommend that you 'tropicalise' the board with circuit board lacquer (NA-1002)



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 175g	NA-1008	\$11.50	\$10.35	\$8.95

Aerosol Butane Gas with Bayonet Fitting 4 Pack

Butane cartridges commonly used in gas stoves, heaters and butane gas blow torches.

- Capacity: 220g each
- Size: 68(Dia.) x 180(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 4 x 220g	NA-1021	\$7.95	\$7.15	\$6.35

Dust Remover

Non CFC. Non flammable gas which allows removal of dust from electronic, electrical and optical devices. It does not leave residues and is non toxic and non conductive.



- Much safer than flammable versions sold elsewhere

	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 250g	NA-1018	\$19.95	\$17.70	\$15.70

Freezing Spray

Non CFC ozone safe propellant. Instant freeze spray for rapidly cooling components to detect intermittent thermal faults, dry joints and overheating problems.



- Non-flammable

	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 250g	NA-1000	\$19.95	\$17.70	\$15.70

Butane Gas

Use it for filling up your gas soldering iron, flame torches, cigarette lighters, etc. Includes five different adaptors, which cover most different gas valves.



5 adaptors supplied



- Includes filling instructions

	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 150g	NA-1020	\$4.95	\$4.45	\$3.95

Isopropyl Alcohol 99.8% Spray

Isopropyl alcohol is one of the most useful service aids you can have around. It has many of uses such as head cleaning, surface cleaning and prep, contact cleaning, stain removal in the laundry etc. It's also a medical-grade surface disinfectant. Easy to use pump pack spray bottle & dries quickly.



- 99.8% concentration

	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 250ml	NA-1066	\$8.95	\$7.95	\$6.95
▲ 300g	NA-1067	\$9.95	\$8.75	\$7.75

Electronic Cleaning Solvent

Non CFC ozone safe propellant. A highly efficient fast drying solvent of high purity. For use on delicate electronic, electrical & precision mechanical assemblies (i.e. tuners, switches, plugs, sockets, relays, pots, etc).



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 175g	NA-1004	\$11.50	\$10.35	\$8.95

Spray-On Contact Adhesive

This pressure-sensitive contact adhesive is in an aerosol can, and bonds to paper, fabric, leather, rubber, foam, vinyl, concrete, metal, in fact almost any surface! No more spills and dribbles from a tube, or sticky screwdrivers (and plastic applicators) from applying glue to a surface. Great for laying innerbond and speaker carpet in/on speaker cabinets etc.



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 400g	NA-1504	\$16.95	\$14.95	\$13.35

Please note Aerosols cannot be shipped by air

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points! Sign-up in-store or online.

*Conditions apply. See front of catalogue for details



WATER DISPLACING LUBRICANTS

Water Displacing Lubricant Spray Can

Multi-use water displacing and rust preventing lubricant specially formulated for use with electronic and mechanical assemblies. Displaces moisture from metal surfaces including: relays, switches, distributors etc... Quickly penetrates rusted and corroded metal parts like nuts and bolts, valves, tools... Also removes grease, chewing gum, adhesives, crayons from most surfaces.

NEW
2017

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	175g	NA-1025	\$4.95	\$4.45	\$3.95

WD40 150g Spray Can

Multi-use water displacing and rust preventing lubricant specially formulated for use with electronic and mechanical assemblies.

Displaces moisture from metal surfaces including: relays, switches, distributors etc.

Quickly penetrates rusted and corroded metal parts like nuts and bolts, valves, tools.

NEW
2017

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	150g	NA-1029	\$7.95	\$7.15	\$6.35

TAPE

PVC Insulation Tape - 20m

High quality insulation tape suitable for wrapping electrical wires.

- Tape thickness: 0.18mm
- Roll Length: 20m
- Self-Extinguished within 2 seconds after being on fire
- Voltage breakdown: 8.0kV



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	Black 20m	NM-2856	\$1.65	\$1.45	\$1.30

PVC Insulation Tape

Top quality PVC tape.

- Two sizes and six colours available
- 18mm wide



NITTO DENKO

▲	Colour	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	Black	5m	NM-2800	\$1.25	\$1.10	\$1.00
	Blue	20m	NM-2801	\$2.95	\$2.65	\$2.35
	Red	20m	NM-2802	\$2.95	\$2.65	\$2.35
	Black	20m	NM-2803	\$2.95	\$2.65	\$2.35
	White	20m	NM-2807	\$2.95	\$2.65	\$2.35
	Ylw/Gn	20m	NM-2804	\$2.95	\$2.65	\$2.35

Insulation Tape - 5m - 6 Pack

Contains one roll each of black, white, red, blue, yellow and green.

- 19mm wide
- Each 5 metres in length
- Pack will vary from picture



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	Pkt. 6	NM-2806	\$3.95	\$3.45	\$3.15

Gaffer Tape - 25m

This is not your cheap plastic stuff. It is the genuine cloth-backed tape that you can split with your thumbnail. This waterproof tape is black in colour, low sheen and is the industry standard 48mm wide. Commonly called "100 mile an hour" tape, or "gaffer" tape, it was originally developed for the air conditioning industry.

- It is very adhesive and very strong
- Ideal for taping down leads on stage
- Repairing flexible duct work
- Other public address setups
- Holding things together in general. A must in every toolbox!



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	Black 25m	NM-2810	\$14.95	\$13.45	\$11.95

HAND LOTION

Hand Protection Lotion

A unique lotion to keep your hands clean while you are at work. It protects your hands and body parts from dirt, grease, oil, ink and harsh contaminants. It also has anti-static properties to prevent ESD (electrostatic discharge) build-up, making it ideal for when working on ESD sensitive circuitry. To use simply wash your hands with soap and water, and then apply a small amount of Hand Protection Lotion to your hands, rub until it fully absorbed into the skin and wash your hands again with soap and water once the job is done. Available in two sizes. Grab a bottle or two for your workshop, lab, office, art studio or home.

- Antistatic properties
- Moisturises skin
- Non-Greasy
- Does not impair grip



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	59ml Pocket Sized Squeeze Bottle	NA-1200	\$12.95	\$11.35	\$10.35
	354ml Hand-Pump Bottle	NA-1202	\$39.95	\$35.95	\$31.95

GOD-LIKE SPRAY CAN BEHAVIOUR

TECH TALK

Many people will not go anywhere without a can of WD40. It is a great product and you will find it on this page. It is not the only God-in-a-can product that we stock, however. We also carry a similar product to WD40 called WD Lube (also on this page). (WD means water displacement). The water displacement property is basically an oil which is silicone based. Silicone oil is very effective, for example, if you need to spray inside an automotive ignition distributor cap to stop short circuiting from water. (Indeed the original WD40 type products were made specifically to clear automotive ignition problems from water ingress). A further refinement is a product called INOX MX3. It does not contain petroleum or silicone based products and is indeed non-poisonous (the other products are not strictly poisonous, just obnoxious to taste) so much so that you can spray INOX near food. All God-in-a-can products have come a long way from their original automotive use. They have great anti-corrosion and lubrication properties, for example. They continue to find applications all over the place, but with modern ignition systems you can probably safely leave home without a can.



Nashua Gaffer Tape - 40m

PREFERRED BY THE PROFESSIONALS. Genuine Nashua brand Gaffer tape. Professional quality 40 metre rolls in both black and silver. Leaves no residue behind and sticks to most clean surfaces, including carpet. 48(W)mm x 40(L)m. Ideal for:

- Outdoor concerts & exhibitions
- Television studios
- Theatre & school productions
- Car racing



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	Black 40m	NM-2812	\$37.95	\$33.95	\$29.95
	Silver 40m	NM-2814	\$37.95	\$33.95	\$29.95

Genuine "Gaffer" Brand Tape in Hi-Viz Colours - 10m

Genuine made-in-USA 24mm wide x 10m roll in Hi Viz fluoro green or hot pink. Matte finish. Ideal for highlighting a piece of equipment, avoiding a hazard, etc.. 100's of uses.

- Waterproof
- 24mm wide x 10m



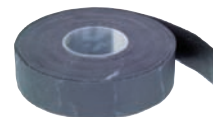
NM-2813

NM-2815

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	Chrome Fluoro Green 10m	NM-2813	\$14.95	\$13.45	\$11.95
	Hot Fluoro Pink 10m	NM-2815	\$14.95	\$13.45	\$11.95

Self Amalgamating Tape - 10m

This insulating tape will "cure" into a single mass (once applied) to help seal and waterproof cable, wires or even pipes. The tape has good corona resisting properties and can be used on high voltage cables. Useful where water and chemical resistance is important.



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	10m	NM-2826	\$19.95	\$17.70	\$15.70

Aluminium Foil Tape - 50m

To be used in any number of situations including RF shielding.

- Foil thickness: 0.04mm
- Raw material: Aluminum foil, Acrylic-based adhesive
- Width 25mm or 50mm
- Application Temp.: -20 to 120°C



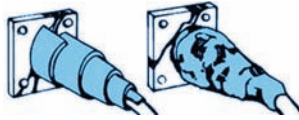
▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	50mm 50m	NM-2860	\$17.95	\$15.95	\$14.35
	25mm 50m	NM-2862	\$11.95	\$10.70	\$9.50

TAPE (CONTINUED)

Coax Seal Tape

This versatile material looks like ordinary PVC electrical tape but is actually a handy sealing system that fuses together to form a removable, waterproof seal once it has been applied. The tape has many uses such as waterproofing outdoor coax connections, sealing low pressure vacuum lines, or even as an alternative to heat shrink tubing when access is difficult.

- 12(W)mm x 1.5(L)m
- Used by NASA & US Military



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	NM-2828	\$12.95	\$11.35	\$10.35

Double Sided Mounting Tape

Thousands of uses, from mounting PCBs in your project to putting up your Nerd Perks workshop guide. Both are double-sided and the NM-2821 is also foam-backed.

- 12mm wide
- Two roll sizes



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
10 metres	NM-2821	\$4.95	\$4.45	\$3.90
25 metres	NM-2823	\$3.95	\$3.45	\$3.15

Heat Resistant Polyimide Tape - 50mm

Originally developed for space missions, this is a heat resistant polyimide film tape with a very similar composition to Kapton® but without the associated brand name cost. Its superior adhesion to ABS makes it the ideal film to coat a 3D printer bed.

Ideal for 3D Printer use!



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
30m Roll	NM-2817	\$19.95	\$17.95	\$15.95

Blue 3D Printer Bed Tape - 50m Roll

Classic blue "painter's" tape as universally used in the 3D printing world. It will help the project stick to the print bed as well as making removal easier if the project gets stuck. It is 48mm wide, so you use less strips and coat the print surface faster.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
50m Roll	NM-2818	\$9.95	\$8.95	\$7.95

ADHESIVES

Epoxy Bond 34ml

Two part epoxy resin-based adhesive recommended for use where a quick set high-strength adhesive is required. Bonds in approximately 4 minutes to give a colourless, permanent bond. Maximum strength after 1 hour. Ideal for rigid plastics, metal, glass, concrete, china & pottery. Supplied in dual tubes.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	NA-1510	\$8.95	\$8.05	\$7.15

J-B Weld Epoxy

The world's finest cold-weld compound. It's an easy, convenient and inexpensive alternative to welding, soldering and brazing. It's a two-part epoxy resin and when mixed together forms a compound as tough as steel. Use it as adhesive, plug filler, sealant or electrical insulator. Like metal, it can be formed, drilled, ground, tapped, machined, filled, sanded and painted. It has an open time of about 30 minutes sets in 4-6 hours, and cures fully in 15-24 hours. It's waterproof, petroleum, chemical, and acid-resistant; resists shock, vibration and temperature variations. Super strong, non-toxic and cleans up with soap and water before setting. Bonds almost any combination of iron, steel, copper, aluminium, brass, bronze, pewter, porcelain, ceramic, marble, glass, PVC & ABS, concrete, fibreglass, wood, fabric - just about any porous/non-porous material.

- Mechanical properties (kPa): Tensile strength: 27300, Adhesion: 12400 / Tensile Lap Shear: 7170
- Shrinkage: 0% / Heat resistance: 260° Celsius
- Contents: 25ml



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	NA-1518	\$14.95	\$13.45	\$11.95

UGlu® Industrial Glue Strips

Make quick repairs without tools. Simply cut a strip to the size you need, then fix just like double-sided tape to create a permanent, instant bond. Bonds to just about anything - carpet, plastic, canvas, wood, metal, tile, plasterboard, cement, paper, glass, even on rough surfaces. Non-toxic, acid free, no mess. Millions of uses at home, office and workshop. Pack contains eight 75 x 30mm strips.

- Instant bond, permanent hold
- Waterproof and weatherproof
- Removable - Safe for kids to use
- Made in USA



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Pack of 8 75 x 30mm	NA-1522	\$8.95	\$8.05	\$7.15

Silicon Protective and Repair Wrap - TUFF TAPE

TUFF TAPE is a self-bonding wrap made from a special high quality silicone rubber compound which adheres to itself when wrapped under tension. The tape forms a non-conductive, air and water tight, insulating seal. Hundreds of uses including emergency radiator hose repair, plumbing or garden hose repair, extension cord connections, marine, sport and tool grips, etc. Buy one for the glove box and another for the tool box.

- Won't melt up to +260°C
- Insulates to 400 volts/mil.
- Tensile strength of 600psi
- Remains flexible down to -50°C
- Will repair a burst radiator hose
- 25mm wide x 3m long

NEW
2017

1
YEAR
WARRANTY



NA-2830



NA-2832



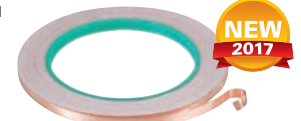
NA-2834

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Black 3m	NA-2830	\$14.95	\$13.45	\$11.95
Red 3m	NA-2832	\$14.95	\$13.45	\$11.95
Clear 3m	NA-2834	\$14.95	\$13.45	\$11.95

Adhesive Copper Tape 5mm x 10m

Copper Tape with Adhesive Backing

- Solderable
- Repair printed circuit boards
- Create antennas and shielding
- 5mm x 25m



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
25m Roll	NM-2870	\$6.95	\$6.25	\$5.55

3 Second Super Glue

Ideal for plastics, wood, rubber, glass, metal and ceramics. It sticks in seconds and needs no clamping.

- Supplied in a small tube of 3 grams.

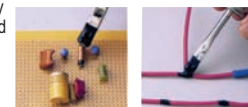


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	NA-1500	\$1.90	\$1.70	\$1.50

Liquid Electrical Tape/Thread Locker

118ML CAN

This liquid can be used instead of insulation tape. Simply brush it on and it will insulate and seal out moisture. Once dry, it is acid & salt resistant and won't crack, peel or harden even under extreme conditions. This is a very versatile product and can be used for such diverse applications as stopping screws from vibrating loose or ropes unravelling. Available in two colours.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	NM-2832	\$29.95	\$26.95	\$23.95
Red	NM-2834	\$29.95	\$26.95	\$23.95

28G TUBES

- Handy 28g tube



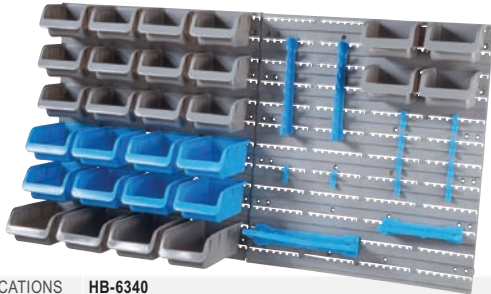
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	NM-2836	\$16.95	\$14.95	\$13.45
Red	NM-2838	\$16.95	\$14.95	\$13.45

MAN CAVE STORAGE

44 Piece Wall Mounted Storage

Keep your workbench neat and tidy, while having everything at your fingertips. This fantastic 44-piece organiser mounts to the wall, while providing various methods for storage. There's 28 storage bins in various sizes, 4 assorted tool holders, and 10 pegs for hanging items too. It can be laid out in all sorts of different configurations to suit your particular needs. It takes just minutes to assemble, and you're ready to go. Minor assembly required.

- Various tool holders
- Assorted bin sizes
- Flexible mounting configuration



SPECIFICATIONS	HB-6340
Overall Weight	4.9kg
Dimensions	Small Grey Bins: 101(W) x 115(D) x 70(H)mm Blue Bins: 100(W) x 163(D) x 72(H)mm Large Grey Bins: 105(W) x 210(D) x 70(H)mm Wall Mounted Rack: 479(W) x 538(H) x 15(D)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
44 Piece Storage	HB-6340	\$39.95	\$35.95	\$31.95

16 Bin Tabletop Storage Organiser

A simple way to keep your desktop free from component clutter and mess. The benchtop stand provides support for 12 small storage bins, and 4 large storage bins to hold your components, spare parts, small tools, or whatever you like! There is also a fantastic magnetic strip along the top of the frame, perfect for storing all your steel hand tools such as screwdrivers and spanners, or even just loose screws, bolts, nuts and other easily lost metal parts! Some basic assembly is required.

- Magnetic strip for tools
- Plenty of storage
- No fuss setup



SPECIFICATIONS	HB-6341
Bin Capacity	Red: 2.2kg, Blue: 3.6kg
Weight	2.7kg
Dimensions	Red Bins: 103(W) x 165(D) x 76(H)mm Blue Bins: 153(W) x 235(D) x 127(H)mm Organiser: 635(W) x 254(D) x 648(H)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
16 Bins	HB-6341	\$49.95	\$44.95	\$39.95

STORAGE CASES

Ideal for carrying small components and is an indispensable addition to any tool kit. See through plastic construction enables the contents to be easily identified and the 2 snap action latches secure the lid and keep everything in its rightful place.

6 Compartment Mini Storage Case

2 of the compartments have guides to enable them to be divided in half and 2 dividers are included.

- Compartments: 27(W) x 77(L) x 23(D)mm
- Overall dimensions: 125(W) x 85(L) x 27(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6308	\$2.75	\$2.45	\$2.15

18 Compartment Storage Box

Consists of three rows with removable dividers so you can configure it for longer parts.

- Compartment size: 37(L) x 37(W) x 30(D)mm
- Dimensions: 230(L) x 115(W) x 35(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6306	\$4.45	\$3.95	\$3.45

18 Compartment Storage Case

6 compartments measuring 43(W) x 37(D) x 167(L)mm. These can be divided into 2, 3 or 4 sub-compartments using the dividers provided.

- Overall dimensions: 274(W) x 40(D) x 175(L)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6312	\$9.95	\$8.95	\$7.95

28 Compartment Storage Case

Can be configured to have anything from 4 big compartments measuring 350(W) x 52(L) x 45(D)mm to 28 compartments measuring 48(W) x 52(L) x 45(D)mm, or anything in between using the dividers provided.

- Overall dimensions: 357(W) x 48(H) x 220(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6313	\$14.95	\$13.45	\$11.95

Industrial Storage Cases

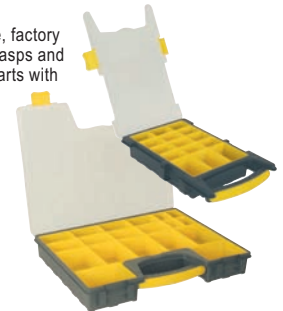
Built for the rough and tumble of the building site, factory or workshop. Made from sturdy ABS with solid clasps and removable compartment trays so you can take parts with you to the job. Two sizes available:

15 COMPARTMENT STORAGE

12 compartments: 55(L) x 40(W) x 50(D)mm
3 compartments: 80(L) x 50(W) x 50(D)mm
Case size: 335(L) x 205(W) x 60(D)mm

19 COMPARTMENT STORAGE

4 compartments: 55(L) x 40(W) x 50(D)mm
8 compartments: 80(L) x 50(W) x 50(D)mm
7 compartments: 110(L) x 80(W) x 50(D)mm
Case size: 335(L) x 420(W) x 60(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
15 Compartment	HB-6304	\$9.95	\$8.95	\$7.95
19 Compartment	HB-6305	\$18.95	\$16.95	\$14.95

SHOW US YOUR BUILD COMPETITION

Kurtis, who shops at our Jaycar Maroochydore store built:

When you can't use the spare room or the kitchen table I had no choice but to build a M.A.S.H. No not the one on TV but a Mobile Assembly and Soldering Handcart. It's a Jaycar store on wheels, A lot of ideas have been given life like BBL Wickets, but even more things have been brought back to life.



STORAGE CASES (CONTINUED)

Portable 12 Compartment Storage Cabinet

We say this is really useful because you can tote it around in your van without spilling the contents. The system features a "double lock" closure on each storage box which should ensure retention of components stored. There are 12 storage compartments, 2 x large measuring 295(W) x 65(D) x 65(H)mm (all are 65(D) x 65(H)mm), 4 medium 145(W) and 6 small measuring 95(W)mm.

The attaché-case outer carrying case measures 300(W) x 310(H) x 145(D)mm. The whole thing is held together with snap locks and 4 hinges.

This is a commercial grade "Tradies" product.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6301	\$44.95	\$40.45	\$35.95

6 Bin Parts Rack Cabinets

SMALL

Similar to our large parts rack, this unit is designed to house smaller items such as ICs, nuts, screws etc.

- Trays measure 60(W) x 65(H) x 45(D)mm each and also tilt down to 45 degrees
- Can be wall mounted & multiple units can be used for larger storage requirements
- Overall dimensions: 400(W) x 75(H) x 60(D)mm



LARGE

This handy parts rack holds a variety of components in neat, see through trays that tilt down to an angle of 45 degrees for easy access.

- Each has an integral label holder and measures 85(W) x 95(H) x 65(D)mm
- The rack can be wall mounted and multiple units can be nested together for larger storage requirements
- Dimensions: 600(W) x 110(H) x 90(D)mm



Three units stacked together

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	Small Rack Cabinets HB-6317	\$9.95	\$8.75	\$7.75
	Large Rack Cabinets HB-6318	\$24.95	\$22.45	\$19.95

TOOL CASES & BOXES

Multi-storage Tool Case

Make up your own tool kits? Our computer service tool kits are supplied in these cases. They are made from vinyl and have a zipper to keep them closed. Inside, there is a number of elastic loops to hold the tools in place.

- 17 loops



▲	W(mm) x D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
	220 x 320 when open	HB-6390	\$9.95	\$8.75	\$7.75

Foam Insert Aluminium Attaché Cases

Ideal for Camera, Video and Test Equipment, these cases feature removable 15mm square foam pieces so you can make a hole to the exact size of your valuable equipment. The lid also has a foam insert for complete protection. Cases are lockable and supplied with two keys. Great for wine and glasses also.



HB-6355



HB-6356

▲	W(mm) x D(mm) x H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
	Small 407 x 277 x 95	HB-6355	\$44.95	\$40.45	\$35.95
	Large 450 x 320 x 145	HB-6356	\$79.95	\$71.95	\$63.95

30 Drawer Parts Cabinet

6 rows of 5 drawers, measuring 50(W) x 115(D) x 30(H)mm. Ideal for workshop use & can be wall mounted.

- Stack multiple units together for larger storage
- Overall size: 280(W) x 130(D) x 210(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6323	\$29.95	\$26.95	\$23.95

33 Drawer Parts Cabinet

A very useful cabinet with 8 rows of 4 pull out drawers (32 drawers) plus one full width pull out drawer at the bottom for larger items (total 33 drawers). Each small drawer is 125mm deep and 65mm wide. The unit can be free standing, or, wall mounted if required. Ideal for storage requirements and workshop.

- Overall dimensions: 414(H) x 304(W) x 135(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6330	\$29.95	\$26.95	\$23.95

RELATED PRODUCT

Conductive Foam

Non-static reusable sheeting for storing CMOS, IC's, LSI's, etc.

- Will store up to 150 ICs on one sheet
- Size 225 x 150mm.
- Ideal for lining storage trays to provide antistatic protection
- Can be cut with scissors or hobby knife for smaller pieces



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	ZV-9998	\$9.95	\$8.75	\$6.75

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Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points! Sign-up in-store or online.

*Conditions apply. See front of catalogue for details



4 Tray Tool/Storage Case

On-site storage of parts, tools, fishing tackle or anything else you need to tote around.

Each compartment has a 233 x 122 x 32mm 13 compartment storage box for small items with dividers that can be removed to accommodate larger things.

All the hinges and catches are the durable pintle type, not a flimsy bit of folded plastic that will snap after a week.



The top tray has a generous 265 x 160 x 65 space for ancillary items and it's finished in a tasteful shade of industrial yellow and black.

- Dimensions: 270(W) x 260(H) x 150(D)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6302	\$24.95	\$22.45	\$19.95

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'. Conditions apply - see page 528 for details.

ABS INSTRUMENT CASES WITH PURGE VALVES

These robust cases come with purge valves for an airtight seal, ribbed ABS construction, stainless steel hinge pins, O-ring seals and very solid catches. The lids are lined with removable egg-shell foam and they come with pluck foam insert with an extra layer of egg-shell foam. Ideal for your camera gear, test, medical or scientific equipment.

3
YEAR
WARRANTY



HB-6389



HB-6388



HB-6381

ABS Instrument Case MPV0

Ideal for professionals to carry around small sensitive devices including computer, medical, or engineering equipment. Features extremely strong catches with metal pins, it's sealed with a rubber gasket, and inside is pluck foam to shape the internal storage space for a specific object. Lanyard included. Cat. HB-6389

ABS Instrument Case MPV1

Tiny size for small instruments or test equipment. Cat. HB-6388

ABS Instrument Case MPV2

Small size for a single SLR camera, DMM or other test equipment. Cat. HB-6381



HB-6383



HB-6385



HB-6387

ABS Instrument Case MPV4

Medium size to take extra camera and lenses or larger gear such as oscilloscopes or multiple pieces of test equipment. Cat. HB-6383

ABS Instrument Case MPV7

Large size. This case also has moulded slots to take dividers and two layers of pluck foam. It's also deep enough to take a pro SLR camera body. Cat. HB-6385

ABS Instrument Rolling Case MPV8

Ideal for the travelling professional. Like a conventional piece of luggage, it has a retractable handle and built-in wheels to take the load. It's also carry-on size. Cat. HB-6387

▲	Internal - W(mm) x D(mm) x H(mm)	External - W(mm) x D(mm) x H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
MPV0	164 x 119 x 40	173 x 125 x 50	HB-6389	\$24.95	\$22.35	\$19.70
MPV1	186 x 123 x 75	210 x 135 x 90	HB-6388	\$39.95	\$35.95	\$31.95
MPV2	300 x 220 x 90	330 x 280 x 120	HB-6381	\$69.95	\$62.95	\$55.95
MPV4	395 x 320 x 117	430 x 380 x 154	HB-6383	\$99.95	\$89.95	\$79.95
MPV7	480 x 355 x 186	515 x 415 x 200	HB-6385	\$129.00	\$115.95	\$102.95
MPV8	510 x 292 x 175	530 x 355 x 225	HB-6387	\$189.00	\$169.95	\$150.95

TOOL & INSTRUMENT CASES

IPX8 Waterproof ABS Cases

Black waterproof ABS cases for storing or transporting just about anything including Smartphones, radios, wallets, delicate electronic devices and more. They are fully protected from water, dust, and sludge thanks to a gasket seal and powerful latches. The insides are lined with a layer of protective foam to insulate against bumps and knocks. Bring one on your next camping trip and keep those valuables protected.

- Lanyard included
- Waterproof & Shockproof

1
YEAR
WARRANTY



HB-6422

HB-6421

HB-6425

▲ Size	L(mm)	W(mm)	(H)mm	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	182	120	42	HB-6421	\$19.95	\$17.70	\$15.70
Medium	182	120	75	HB-6422	\$24.95	\$22.35	\$19.70
Large	210	120	90	HB-6425	\$34.95	\$31.45	\$27.90

WATERPROOF ENCLOSURES

IP66 Industrial ABS Enclosures

Gasket seals, stainless steel hardware and IP66 rated for use in industrial, marine and other harsh environments. The closures have a locking catch that engages to positively hold the lid closed until disengaged. Each enclosure includes a 1.8mm galvanised chassis for mounting DIN rail, switchgear, relays or circuit breakers. A size for any application.

- Dimensions: HB-6404: 200(L) x 200(D) x 130(H)mm
- HB-6412: 175(L) x 125(D) x 75(H)mm

1
YEAR
WARRANTY



▲ Cover	Cat.	Qty 1+	Qty 4+	Qty 10+
Opaque lid	HB-6404	\$34.95	\$31.45	\$27.95
Transparent lid	HB-6412	\$34.95	\$31.45	\$27.95

NON-CONTACT THERMOMETERS

Economy Non-Contact Thermometer

- Built-in laser pointer
- Wide temperature range
- 8:1 Distance to spot ratio
- Auto data hold
- Carry case included



Safely measure temperature in hard to reach places, hot or hazardous areas using the built-in laser pointer to target the surface. Compact and easy to use, the thermometer can provide several readings within seconds. Backlighting illuminates the LCD display for taking measurements at night or in low light areas. Carry case included.



SPECIFICATIONS	QM-7215
Display	3 digit
Optical resolution	8:1
Temperature	-30°C to +260°C / -22° to +500° F
Emissive	Fixed to 0.95
Sampling rate	< 1s
Special features	Built-in laser pointer, auto data hold, back light, min/max record, over range indicator
Battery	1 x 9V
Dimensions	131(H) x 96(W) x 35(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7215	\$59.95	\$53.95	\$47.95

Non-Contact Thermometer with Dual Laser Targeting

- Laser pointing targeting
- Wide temperature range
- 12:1 Distance to spot ratio
- Backlit LCD
- Holster Included



Measure the temperature of any surface from a safe distance with this compact sized non-contact thermometer. With a wide temperature range and laser targeting, this portable instrument is easy to use for quick and accurate temperature checking of any surface. With a 12:1 distance to spot size, you can get the temperature of almost the exact spot in most cases. With the backlight, the temperature can be read in low light conditions.



SPECIFICATIONS	QM-7221
Display	3.5 digit
Optical resolution	12:1
Temperature	-50°C to +650°C / -58°F to +1202°F (±1%)
Emissive	Adjustable 0.10 to 1.0
Sampling rate	6.7Hz
Special features	Dual laser targeting, dual display, automatic data hold, back-light, trigger lock, max hold, high/low alarm
Battery	1 x 9V
Dimensions	146(L) x 104(W) x 43(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7221	\$139.00	\$124.95	\$110.95

Professional High Temperature Non-Contact Thermometer

- Wide temperature range
- 30:1 distance to spot ratio
- Backlit LCD
- Auto data hold
- Professional grade
- Moulded carry case



This professional infrared thermometer allows you to measure high temperatures with safety. With a range of -50 to 1000° Celsius, it's suitable for lab, furnace, forge and small-scale foundry work. The laser pointer allows for accurate placement of the measurement point and the 30:1 distance-to-target ratio allows for accurate measurement from greater distances. The unit can be mounted on a tripod with trigger lock for unattended min/max logging.

• Supplied in a robust blow-moulded case



SPECIFICATIONS	QM-7226
Display	4.5 digit
Optical resolution	30:1
Temperature	-50°C to +1000°C / -58°F to +1832°F (±1.5%)
Emissive	Adjustable 0.10 to 1.0
Sampling rate	1Hz
Special features	Laser targeting, automatic data hold, dual display, backlight, trigger lock, min / max / dif / avg record, high / low alarm.
Battery	1 x 9V
Dimensions	230(L) x 120(W) x 56(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7226	\$249.00	\$223.95	\$198.95

DISTANCE TO SPOT RATIO EXPLAINED

Distance to spot ratio is the ratio of the distance of the Thermometer to the object being measured, and the diameter of the temperature measurement area. The larger the ratio number the better the resolution.

TECH TALK

Digital Thermometer with K-Type Thermocouple

- LCD
- Pocket Size
- Wide Temperature Range
- Thermocouples included
- Battery included

A handy pocket-size digital thermometer, suitable for the lab, workshop or in the field. It features an excellent measurement range from -50 to 750°C and a hold function to lock the reading on the display.



SPECIFICATIONS	QM-1602
Display	2000 count
Temperature	-50°C to +750°C (±1%)
Sampling rate	2.5Hz
Special features	Data hold
Battery	2 x AA (supplied)
Dimensions	118(L) x 70(W) x 29(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1602	\$39.95	\$37.45	\$31.90

Mini Non-Contact IR IP67 Thermometer

- Batteries & lanyard included

Ultra compact, non-contact thermometer. IP67 rated so is ideal for industrial and lab applications. LCD readout gives temperature in Celsius or Fahrenheit.



SPECIFICATIONS	QM-7218
Temperature	-33 to +110°C (-27 to +230°F)
Accuracy	2.5°C
Distance to spot ratio	1:1
Response time	1 second
Size	82(L) x 17(Dia)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7218	\$34.95	\$31.45	\$27.95

PROBE THERMOMETERS

LCD Probe Thermometer

- Pocket clip
- Stainless steel probe
- 150mm long

Multi-purpose digital thermometer for the kitchen, lab, factory, workshop or barbecue. It measures in Celsius and Fahrenheit and fits in a pocket.



SPECIFICATIONS		QM-7314
Temperature		-50 - 120°C, -58 - 248°F
Accuracy		±1°C
Length		150mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7314	\$10.95	\$9.85	\$8.75

Digital Stem Thermometer

- Requires LR44 battery (included) / 5000 hour battery life
- 205mm long



Endless applications such as food processing, laboratory work, photography, home brewing etc. this digital thermometer features fast response, min/max memory, data hold and automatic shut-off after 10 minutes. The probe is stainless steel, so it will never corrode, the body is splashproof and it will never need calibration.

SPECIFICATIONS		QM-7216
Temperature		-50 - 200°C / -58 - 392°F
Accuracy		±1°C, ±2°F
Display resolution		0.1°
Sampling rate		Every 0.7 seconds



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7216	\$29.95	\$26.95	\$23.95

Thermocouple Thermometer - 2 Input

- Auto power off
- Backlit LCD
- Max and hold function
- Celsius & Fahrenheit
- Holster included
- Thermocouples included

Fast response and laboratory accuracy, works with K-type thermocouples and offers 0.1 or 1° user-selectable resolution over the entire measurement range. You can monitor two separate temperatures or use the differential function to compare them.

SPECIFICATIONS		QM-1601
Display		2000 count
Temperature		-50°C to 1300°C (-58°F to 2000°F)
Special features		Backlight, data hold, max hold
Battery		1 x 9V
Dimensions		172(L) x 84(W) x 42(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1601	\$94.95	\$85.45	\$75.95

FRIDGE THERMOMETERS

Digital Fridge/Freezer LCD Mini Thermometer

See at a glance that your favourite food or beverage is at the correct temperature in the fridge or freezer. Hang it from a wire shelf, stand on a shelf or attach to a metal surface with the built-in magnet. Stylish design with white face and silver colour surround.



SPECIFICATIONS		QM-6323
Selectable		°C / °F
Digit height		23mm
Temperature range		-19°C to 49°C
Batteries		1 x CR2025 included
Dimensions		68(L) x 44(H) x 12(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-6323	\$9.95	\$8.75	\$7.75

Digital Thermometer for Fridge or Freezer

Simply attach the sensor in the fridge or freezer and the thermometer on the outside with the attached magnets or enclosed Velcro strip. Set your preferred reading of °C or °F and then set the minimum and maximum temperatures with the alarm. If the fridge goes below or above these set temperatures the alarm will sound until you manually turn it off to investigate the problem.

- No more spoiled food ever again.
- Shows room temperature at the touch of a button as well



SPECIFICATIONS		QM-7209
Room temp range		-10 to 50°C
Fridge temp range		-50 to 70°C
Display size		26(W) x 13(H)mm
Fridge sensor cord		1m
Requires		1 x AAA battery (supplied)
Dimensions		67(W) x 39(H) x 15(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7209	\$24.95	\$22.45	\$19.95

USB TEMPERATURE / HUMIDITY DATALOGGERS

A must for anyone involved with food preparation, archiving or storage or applications where storage of environment information is important. These USB dataloggers log temperature and humidity readings and store them in internal memory for later download to a PC. The measurement interval is adjustable - you simply set up the recording parameters then download the

Two models available with mounting bracket and software included:

Direct Plug In Type

- Easy USB interface
- Mounting bracket included
- 32000 sample memory (16000 temp, 16000 humidity)
- Software compatible with Windows 2000, XP, Vista



SPECIFICATIONS		QP-6013
Range		-40 - 70°C (-40 - 158°F), 0 - 100% relative humidity
Accuracy		Humidity ±3%, Temperature ±1°C
Resolution		Humidity 0.1%, Temperature 0.1°C
Memory		3200 samples
Battery life		5 sec rate: 12 months, 10 sec rate: 2.5 years
Dimensions		100(L) x 22(W) x 20(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-6013	\$119.00	\$106.95	\$94.95

data when you need it. The data is recorded at the prescribed intervals and will alert you if preset min/max levels are exceeded. Countless applications including greenhouses, museums, warehouses, container storage, photography, archives, food preparation etc.

USB / LCD Readout Type

- 32,700 sample memory
- Adjustable measurement cycle
- Analysis software included
- Software compatible with Windows 2000, XP, Vista



SPECIFICATIONS		QP-6014
Range		-40 - 70°C (-40 - 158°F), 0 - 100% relative humidity
Accuracy		Humidity ±3%, Temperature ±1°C
Resolution		Humidity 0.1%, Temperature 0.1°C
Memory		32,700 samples
Measurement cycle		1s - 24h
Dimensions		95(H) x 50(W) x 32(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-6014	\$149.00	\$133.95	\$118.95

SOUND LEVEL METERS

Micro Sound Level Meter

- Very compact size
- Min / max hold
- Backlit



Digital for an analogue price!

With a range of 40 - 130dB, this little meter is ideal for environmental, safety and sound system testing. It has a fast response time for transient measurements and is A-weighted for the frequency range of human hearing.

- Extremely small and price matches its size.

Compact Digital Sound Level Meter

- Compact size
- Data hold
- Backlit
- Carry case



Featuring a wide dynamic range from 30 to 130dB, it can measure both A and C weightings to get the right response for the human ear and can have fast or slow responses to get an "ambient" reading or a short noise. Includes data hold and min/max functions, as well as tripod mount for prolonged use. Great for car audio installers, clubs and PA.

- Supplied with carry case and wind sock.

Pro Sound Level Meter with Calibrator

- Compliant with Type 2 (Class 2) Standards
- A & C weighting scales
- Fast and slow response
- Tripod mounting thread
- External calibrator (included)
- Maximum hold feature
- Min/Max measurement
- AC & DC analogue outputs
- Tripod included
- Backlit LCD



APPROVED TYPE 2 (CLASS 2)

This meter conforms to IEC 61672-1 Class 2 for sound level meters.

Suitable where accuracy, repeatability or validation is required. This sound level meter also includes a calibrator so you can verify and authenticate your results. Scales for A and C weighting are included so it is ideal for vehicle noise testing, race scrutineering, traffic or aircraft noise testing or any evidence-based noise testing. Rugged and easy to operate for the garage environment, it also has both AC (1Vrms representation of the meters waveform) and DC (10mV/dB) analogue outputs so you can connect it to other equipment such as data-loggers, plotters, oscilloscopes etc.

SPECIFICATIONS	QM-1592	1 YEAR WARRANTY
Display	3.5 digit	
Accuracy	±1.4dB	
Calibration	94, 114dB	
Dynamic range	50dB	
Resolution	0.1dB	
Update	Every 0.5 seconds	
Frequency range	31.5Hz - 8kHz	
Dimensions	278(L) x 76(W) x 50(D)mm	

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1592	\$379.00	\$339.00	\$299.00

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'. Conditions apply - see page 528 for details.

SPECIFICATIONS	QM-1591	1 YEAR WARRANTY
Display	3 digit	
Range	40 - 130dB (±3.0dB)	
Frequency range	31.5Hz to 8kHz	
Weighting	A weighted	
Special features	Pocket sized, min / max hold, backlight	
Battery	1 x 9V (included)	
Dimensions	128(L) x 51(W) x 32(D)mm	

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1591	\$49.95	\$44.95	\$39.95

SPECIFICATIONS	QM-1589	1 YEAR WARRANTY
Display	3.5 digit	
Range	30-130dB (±1.5dB)	
Frequency range	31.5Hz to 8kHz	
Weighting	AC selectable weighting	
Response	Fast / slow selectable	
Special features	Max hold, data hold, backlight	
Battery	1 x 9V	
Dimensions	210(L) x 55(W) x 32(D)mm	

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1589	\$129.00	\$115.95	\$102.95

SHOW US YOUR BUILD COMPETITION

David, who shops at our Jaycar Rydalmere store built:



I built a custom power supply for a function generator. I used the light sensitive board and positive type developer for etching.

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!

LIGHTMETERS

Digital Lightmeter

- LCD
- 3.5 Digit
- Separate Photo Detector



A handy digital lightmeter for photography, lab work, architectural, engineering and construction applications. It includes an integrated stand and will measure incident light in 4 ranges. The photo detector is wired on a curly cord which extends to 1 metre, allowing the user to take light measurements at the optimum position. Sensor cover and carry case included.

SPECIFICATIONS	QM-1587
Display	2000 count
Range	200, 2000, 20000, 50000 lux/Fc
Accuracy	±5%±10d (<10,000lux) ±10%±10d (>10,000lux)
Resolution	0.1lux/Fc
Sampling rate	1.5Hz
Special features	Data hold, max hold
Battery	1 x A23 (12V)
Dimensions	188(L) x 64(W) x 24.5(D)mm
Photo detector	115(L) x 60(W) x 27(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1587	\$59.95	\$53.95	\$47.95

Professional Digital Light Meter

- Data Hold
- Relative Mode
- Auto Zeroing
- Long-Life Silicon Photo Diode Sensor
- Selectable Lux Or FC Scale
- Auto Power Off: 30 Minutes
- Max And Min Measurements



Light has an enormous impact on the atmosphere created in a room, office, foyer, retail shop, reception areas, or on film and photography. In some cases, a professionally lit servicescape may be the difference between business success and failure. Achieving the right amount of light is a fine art, and the help of a professional tool should be sought to ensure minimum lighting level standards are achieved. This professional light meter is brimming with features that should be part of every lighting technician's arsenal. It uses photopic spectral sensitivity which closely mimics the response of the human eye to changes in light. It is extremely accurate with a rapid response and can store min and max values for easy comparisons. Measurement can be switched between LUX and FC (foot candles) and a data hold function is included for pausing the reading. All this is output to an easy to read backlit LCD. A carry plastic case with handle is included for easy and safe transportation.



SPECIFICATIONS	QM-1584
Display	4,000 count with 41 segment bargraph
Max measurement	400,000lux / 40.00 kFc
Spectral response	CIE Photopic
Spectral accuracy	CIE VA function f1 ≤6% f2 ≤2%
Accuracy	+/-5% +/-10d (<10,000 lux), +/-10% +/-10d (>10000 lux)
Accuracy for C.I.E. standard illuminance	A(2856K)
Sampling rate	1.5 times/second



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1584	\$169.00	\$151.95	\$134.95

OTHER TEST EQUIPMENT

Professional Laser Distance Meter

A professional grade laser distance meter brimming with features. It allows you to easily measure the distance between two points, it can calculate the area of a rectangle or the volume of a cube with ease. You can measure the height of a wall thanks to the inbuilt Pythagoras calculator. Measurements can be added or subtracted from each other using the plus and minus buttons. Carry pouch included.

SPECIFICATIONS	QM-1622
Measurement range	0.05 to 35m
Accuracy	+/-1.5mm
Smallest unit displayed	1mm
Measuring units	m, in, ft
Laser class	Class II 635nm < 1mW
Batteries	Requires 2 x AAA
Rating	IP54
Measurement records	20
Dimensions	110(L) x 45(W) x 27(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1622	\$179.00	\$160.95	\$142.95

Solar Power Meter

Installing solar panels can result in a missed opportunity if they're not positioned optimally to catch the radiation from the sun. Similarly to a TV installer using a signal meter, you can use this device to find optimum locations on a rooftop (or wherever you're installing them) to help ensure they'll be efficient and generate as much of their rated power possible for your location. Expressed as either W/m² (Watts per square metre), or BTU/ft² (British thermal units per square foot). Measurement up to 1999W/m², or 634BTU/ft². With data hold and high accuracy, you can get rapid readings on the huge LCD. Includes carry case.



SPECIFICATIONS	QM-1582
Range	0-1999W/m ² , 634BTU/ft ²
Resolution	1W/m ² ; 1 BTU/ft ²
Sampling Time	0.25 Seconds Approx.
Power	3 x AAA Batteries (Included)
Dimensions	63(W) x 162(H) x 28(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1582	\$129.00	\$115.95	\$102.95

Pocket Moisture Meter - Wood, Building & Plasterboard etc.

This is an intelligent wood moisture meter suitable for measuring water content in building materials and wooden fibre articles such as wooden and bamboo objects, cotton, paper etc. Simple to use, the unit comes with two-pin electrode which enables you to check thick wood at the core without having to cut it open. A must have for home/building inspectors, flooring specialist and general contractors. Carry case included.

- Backlit digital LCD screen
- Ergonomically designed with comfortable finger grip
- Low power consumption
- Auto power off



SPECIFICATIONS	QP-2310
Electrode length	8mm
Measuring range	Wood: 6 to 44%, Material: 0.2 to 2.0%
Accuracy	Wood: +/-2%, Material: +/-0.2%
Ambient temperature	0 to +40°C
Ambient humidity	0 to +85%RH
Battery	4 x LR44 (included)
Dimensions	96(H) x 40(W) x 20(D)mm, 83g



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2310	\$34.95	\$31.45	\$27.95

Hand Held pH Meter

A simple and accurate device for checking pH levels in water. The unit is equally valuable for keeping your fish tank at the proper pH level for optimum fish health or checking your swimming pool for the right balance. The meter is simple to use and the large liquid crystal display gives clear and precise readings that are much more accurate than messy chemicals. The unit has an extendable probe that can be adjusted to suit each application. The meter is supplied with a 9 volt battery, a bottle of pH 7.0 buffer solution and calibration tool.

SPECIFICATIONS	QM-1670
Range	1 - 14 pH
Resolution	0.1 pH
Accuracy	±0.2 pH
Operating temperature	0° - 50°C
Weight	120g
Dimensions	40(W) x 158(H) x 34(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
pH Meter	QM-1670	\$64.95	\$58.50	\$51.95
Buffer Solution (50ml)	QM-1671	\$8.95	\$7.95	\$6.95

VERNIER CALIPERS

Budget 150mm Digital Vernier Calipers

This carbon composite digital caliper is ideal for general use and situations where the cost of our precision stainless steel tool isn't justified. The digital display is calibrated in imperial and metric units with a corresponding vernier scale etched onto the caliper slide. While we wouldn't recommend you use this caliper to build the Space Shuttle, it's perfectly suited to the home handyman who finds traditional calipers hard to read.

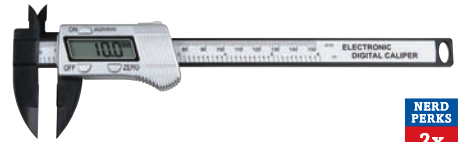


- 150mm measurement range
- 0.1mm resolution
- 8.3mm LCD character height
- 245mm Overall length (closed)
- Internal and external jaws
- Includes battery

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2081	\$13.95	\$12.35	\$11.15

150mm Digital Vernier Calipers

This precision instrument is made out of surgical grade stainless steel. It features a 5 digit LCD and will show readings in metric - 3 significant figures plus 2 decimal and in imperial - 2 significant figures and would you believe 3.5 decimal. (The fourth figure is either 0 or 5). The caliper can be zeroed at any point on the scale. A quality product at a fabulous price. Supplied with a sturdy clip-lock case with foam retainer and provision for spare battery.



- 0 - 150mm (0-6") range
- Resolution 0.01mm / 0.0005" (repeatability same)
- LR-44 battery powered (supplied)
- Battery life 12 months nominal
- Auto power off
- Thumbscrew slide damper
- Converts millimeters to inches and vice versa
- Case dimensions 250(L) x 90(W) x 27(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2082	\$39.95	\$35.90	\$31.90



STUD DETECTOR

3 in 1 Stud Detector with Laser Level

Stud detectors have been around for a long time but sometimes one appears which becomes a definite buy for any serious handyman. This model is one of those! Featuring a stud detector which just doesn't "beep" when you're over the stud, it shows the proximity when you are NEAR a stud via the large LCD and shows a target graphic when you're spot on. Also featuring live wire (voltage) detection, you can be sure than nail you're about to hammer into the wall won't end up in your mains wiring. The best feature of all is the built in laser level. Rotating across 180 degrees with stops on 45 and 90°, you can instantly and easily do layouts and basic tasks such as picture levelling in a snap. The inbuilt spirit level ensures you're at the right angle.

- Laser levelling, layout and stud locating on vertical and horizontal surfaces
- Wood, metal and live wire detection.
- 180° pivoting laser plane with level and plumb vials
- 20' laser line projections onto work surface with 90° squaring
- Two self contained half pins to mount unit to work surface
- LCD sensing and mode display with target graphics
- LED display with continuous live wire detection
- Thumb dial adjustable feet for levelling the laser
- Easy keypad operations and comfortable grip
- Powered by 9V Battery (included)
- Dimensions: 180(H) x 67(W) x 38(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2288	\$59.95	\$53.95	\$47.95

WEIGHING SCALES

100g Mini-Pocket Scale

Truly pocket-size scales. Ideal for laboratory, diets, clinical, jewellery or lapidary work. They'll measure up to 100 grams with excellent resolution and weigh in grams, carats, pennyweight or ounces. 1 x CR2032 battery included.

- 60 second auto power-off
- Tare function
- 0.01g resolution
- Dimensions: 72(L) x 40(W) x 10(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
100g	QM-7258	\$49.95	\$44.90	\$39.90

200g Mini-Scale with Backlight

Extremely accurate mini scale suitable for a variety of applications. The large LCD is backlit and a 200g calibration weight is included. Resolution is 0.01g and it weighs in grams, carats, ounces and pennyweight.

- 2 x AAA batteries included
- Dimensions: 93(L) x 52(W) x 20(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
200g	QM-7259	\$69.95	\$62.95	\$55.95

1kg Digital Bench Scale

Precision 1kg electronic scale with resolution of 0.01g for when a high degree of accuracy is required. Weighs in grams, ounces, pounds, grains, carats, troy ounces and also supplied with a wind shield and a built-in bubble level to provide maximum accuracy. Particularly suited to calculating quantities as it counts pieces by weight. Powered by 4 x AA batteries (not included) or mains adaptor. Suitable for kitchen, lapidary, jewellery, reloading etc.

- Auto power-off after 60 seconds
- Automatic calibration
- Backlit LCD
- Tare and counting function
- Mains powered
- Dimensions: 175(W) x 75(H) x 260(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
1kg	QM-7264	\$179.00	\$160.95	\$142.95

Digital Luggage Scales

Some budget airlines are now charging \$60 (yes \$60!) per kilo for excess baggage, and reducing the allowance to as little as 15kg. If you're going travelling, especially anywhere in Europe, an accurate luggage scale should be considered an essential. It costs less than a third of a kilo of Ryanair excess baggage chargers and the scale itself weighs only 160g. It also takes two common AAA batteries you can get anywhere in the world.

- Capacity: 40kg
- Backlit LCD
- Tare and auto-off
- Overload and low battery indication
- Dimensions: 122(L) x 85(H) x 25(W)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7232	\$24.95	\$22.45	\$19.95

FUNCTION GENERATOR

Handheld 1MHz Function Generator

Finally, a signal generator with the features of a bench top generator and a portable size! The Velleman HPG1 pocket signal generator will produce accurate test signals at frequencies from 1Hz all the way to 1MHz yet it is only a little bigger than a smartphone. Easy to use, the pushbutton controls allow you to quickly set up generation of sine, square, and triangle waveforms with adjustable frequency and amplitude. The backlit LCD screen shows the current waveform and frequency settings. Frequency changes are in variable steps from 1Hz to 10kHz allowing you to change settings at your preferred speed. For more advanced testing it also has a frequency sweep mode to shift between two frequencies using a linear or logarithmic scale over an adjustable period. Signal amplitude is indicated by a handy slider bar with the output level also displayed in dBm and Vrms or Vpp (depending on waveform). An inbuilt Ni-MH battery gives up to 6 hours of run time and can be recharged with the included USB charge cable or a 9VDC plug pack (not included use Cat. MP-3146). Supplied with USB charge cable, BNC to RCA adaptor, and BNC to binding post adaptor.

SPECIFICATIONS	QT-2304	Dimensions	114(H) x 74(W) x 29(D)mm, 200g
Digital to analogue converter resolution	10 bits	Display size	50(W) x 25(H)mm
Frequency range	1Hz to 1MHz	Display resolution	128(W) x 64(H) pixels
Frequency steps	1Hz, 10Hz, 100Hz, 1kHz, 10kHz	Battery	Inbuilt 4.8V Ni-MH rechargeable
Waveforms	Sine, square and triangle	Battery life	Up to 6hours
Maximum output voltage	8Vpp	Recharge	9VDC 200mA from included USB charge cable or plug pack (sold separately use Cat. MP-3146)
Sweep modes	Linear or logarithmic, single or bidirectional		
Sweep period	0.01Hz to 100Hz		



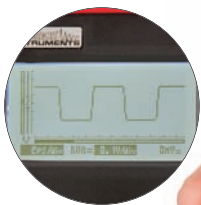
1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	QT-2304	\$299.00	\$269.00	\$239.00

HANDHELD OSCILLOSCOPES

10MHz Rechargeable Handheld Pocket Scope

- Hand Held
- Rechargeable
- Durable Rubber Surround
- 6 Hour Run Time
- Backlit Display
- Memory Storage for 2 Signals
- Full Auto Range Operation
- Includes CRO Probe



Limited Stock

A vital piece of test equipment for hobbyists, students, technicians, or designers, the Velleman HPS140 pocket scope is a complete portable oscilloscope with a tiny size. With dozens of features found on full size digital oscilloscopes you'll be amazed how they squeezed all of it into a package a little larger than a Smartphone.

It's impressive list of features include full auto range operation, input sensitivity down to 1mV, real time sample rate up to 40MS/s, and bandwidth up to 10MHz. Aside from the standard scope features it also has some nifty tools including on screen markers for measurement of amplitude and time, RMS power measurement on audio speakers from 2 to 32 Ohms, hold function for the current display, and memory storage for 2 signals which are retained even after shutdown. The unit is housed in a durable rubber surround and the screen is LED backlit for easy viewing. An in-built Ni-MH battery gives up to 6 hours of run time and can be recharged with the included USB charge cable or a 9VDC plugpack (not included use Cat. MP-3146). Supplied with 1:1/1:10 CRO probe and USB charge cable.

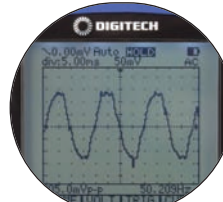
SPECIFICATIONS	QC-1914
Bandwidth	10MHz
Real time sample rate	40MS/s
Max input voltage	100Vp AC or DC
Input coupling	DC, AC, and GND
Timebase range	250ns to 1hr per division in 32 steps
Input range	1mV to 20V per division in 14 steps
Display size	50(W) x 25(H)mm
Display resolution	Full 128(W) x 64(H) pixels, Signal 118(W) x 49(H) pixels
Accuracy	+/-2.5%
Weight	200g
Battery	Inbuilt 4.8V Ni-MH rechargeable
Battery life	Up to 6hours
Recharge	9VDC 200mA from included USB charge cable or plugpack (available separately Cat. MP-3146)
Dimensions	114(H) x 74(W) x 29(D)mm

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	QC-1914	\$369.00	\$329.00	\$289.00

10MHz/4000 Count Handheld Scope DMM

- True RMS
- Digital Oscilloscope
- USB PC Interface
- PC Logging Software
- 128 X 128 LCD Display
- LED Backlight (3 Stage)
- Data Hold/Min/Max Recording
- Relative Measurement
- 100 Record Memory
- Diode Test
- Autoranging
- Audible Continuity
- 20A Current



Smartly combines a well featured digital oscilloscope and a 4,000 count True RMS digital multimeter into one versatile package, whilst also featuring a USB interface and PC software to match. Perfect for laboratory work or for technicians working in the field, with more features than you can jab a probe at.

DSO SPECIFICATIONS	QM-1577
Simulation bandwidth	DC 10MHz
Vertical resolution	8 bits
Vertical sensitivity range	50m V/div - 200V/div
Vertical amplitude precision	+/- (5% + 0.1div)
Automatic zero reference	In DC/dB measurement
Trigger level	+/- 12 div (at each step 0.1 div)
Max real-time sampling rate	50Mps
Nonlinearity	+/-1 bit
Coupling	DC/AC/GND
Indexing	Vertical +/- 4.0, horizontal 12.8
When range	0.20us/div - 20s/div
Accuracy	+/- (0.01% + 0.1div)
Scanning mode	Auto/normal/single
Trigger slope	Rising along/down along
DMM SPECIFICATIONS	
Display	128 x 128 graphic LCD (4000 count)
Security class	Cat III 1000V
Basic DCV accuracy	0.75%
DC voltage	400mV, 4V, 40V, 400V (+/-0.75%), 1000V (+/-1.5%)
AC voltage	400mV, 4V, 40V, 400V (+/-1%), 1000V (+/-1.5%), 50Hz-1kHz
DC current	40mA, 400mA, 4A, 20A (+/-1.2%)
AC current	40mA, 400mA, 4A, 20A (+/-1.5%), 50Hz-1kHz
Resistance	400R, 4K, 40K, 400K, 4M (+/-1%), 40M (+/-3%)
Capacitance	51.2nF, 512nF, 5.12uF, 51.2uF, 100uF (+/-2%)
Frequency	5.12Hz 5.12MHz (+/-1%)
Inductance	
Temperature	
Ave/RMS	True RMS
Input impedance	10M
Special features	USB/PC interface, graphic display
Dimensions	186(L) x 86(W) x 32(D)mm

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	QM-1577	\$579.00	\$519.00	\$459.00

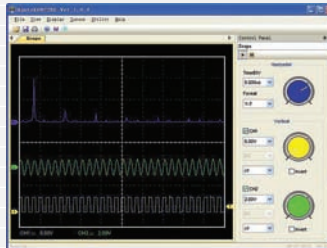
USB OSCILLOSCOPE

20MHz USB Oscilloscope

This unit does away with more of the hardware and provides a highly accurate interface to allow software to provide the display. It still provides 20MHz bandwidth and high accuracy and physical probe couplings, but takes up a fraction of the bench-space. Use the included software to provide just about all standard oscilloscope functions, and even output waveforms to excel/word files. Convenient function in a small form factor, ideal for the traveling or compact workbench.

- USB interface plug & play
- Waveforms can be exported as Excel/Word files
- Cursor measurements
- Automatic setup
- Spectrum analyser (FFT)

SPECIFICATIONS	QC-1929
Channels	2
Input impedance	1MΩ
Bandwidth	20MHz
Sampling rate	48M Sa/Sec
Input coupling	DC
Max input voltage	±5V
Triggers	Rising edge / falling edge
Trigger modes	Auto, Normal, Single
Mathematical operations	Add / subtract / multiply / divide / FFT
Sensitivity	20mV/div - 5V/div
Resolution	8bit
DC accuracy	+/- 3%
Operating Systems	Windows XP/Vista/7/8/10
Dimensions	206(W) x 123(D) x 37(H)mm
Weight	375g
Accessories	2 x 10:1 probes, software, USB cable



NEW
2017

1 YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	QC-1929	\$199.95	\$179.95	\$159.95

OSCILLOSCOPES PROBES

CRO Probe - 10 :1 / 1:1

Passive high impedance oscilloscope probe designed and calibrated for use with instruments having an input impedance of 1M-Ω shunted by 20pF. It may be compensated for use with instruments having an input capacitance of 15 to 35pF. The probe incorporates a three-position slide switch in the head, which selects attenuation of x1, x10 or a ground reference position. This probe suits all of the oscilloscopes in our range. Supplied with sprung hook, channel identifier clip, ground lead, insulating tip, IC tip and adjusting tool.

SPECIFICATIONS	POSITION X10	POSITION X1
Attenuation ratio	10:1	1:1
Bandwidth	DC to 100MHz	DC to 100MHz
Rise time	3.5ns	3.5ns
Input resistance	10MΩ when used with oscilloscopes with 1MΩ input	1MΩ (oscilloscope input resistance)
Input capacitance	14pF (approx.)	14pF (approx.)
Compensation range	10 to 35pF	10 to 35 pF
Working voltage	300VDC incl. Peak AC derating with frequency	600V DC incl. Peak AC derating with frequency
		Cable: 1.4m
		Safety Meets IEC1010-1 CAT.I



POSITION REF
Probe tip grounded via 9M-Ω resistor, oscilloscope input grounded.

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	QC-1902	\$39.95	\$35.90	\$31.90

2000 & 5000 COUNT - WHAT DOES IT MEAN? TECH TALK

For the first time user, the specifications on a DMM can be very confusing, particularly the display functions.

So what does 3.5 or 4.5 digit mean or what does 2000 count mean?

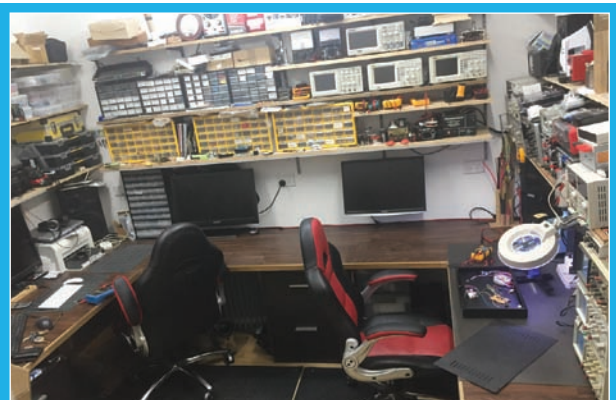
DMMs display readings to several decimal places, depending on the accuracy, and the number of digits is the display span of the meter. A basic DMM may appear to have 4 digits, but the maximum reading it will display 1999. On the 2V range, for example, the display will read a maximum of 1.999 before it switches to a higher range - assuming it's an autoranging meter. Because the most significant digit can only indicate 1 (1.999), it's called half a digit, so most DMMs have a 3.5 digit display.

A meter that can read up to 3999 before it changes has a 4000 count display.

Safety categories can also cause confusion:

Cat I:	Applies to circuits not connected to mains voltage
Cat II:	Circuits directly connected to mains voltage such as household appliances
Cat III:	Circuits connected to mains voltages in a building installation - mains wiring, switchboards etc.
Cat IV:	The source of the mains voltage installation - power lines, transformers and sub-stations

You'll notice that some DMMs have more than one rating. This isn't a misprint of mistake. Remember that the category refers to the nature of the installation, not necessarily only the voltage in the installation. For example, a Cat III installation may include three phase voltages of 415V and single phase of 240V. A device rated for Cat II 600V is not suitable for use on this installation, in spite of the fact that its voltage rating is suitable - a Cat III device rated above the specified voltage is required.



SHOW US YOUR BUILD COMPETITION

Mauro, who shops at our Jaycar Modbury store built:

This used to be a section of a carport which has been heavily converted into my electronics hobby room where I pull stuff apart, fix and learn about things and build stuff. This is probably the cleanest its been in a while. Currently working on putting a project into a case on the right.

DIGITAL STORAGE OSCILLOSCOPES

Consign your CRO to the dustbin of history where it belongs and go digital. Once they were so expensive only professionals could justify buying them, they're now within the reach of anyone in the market for a dual trace scope. The advantages of a DSO gives you capabilities that simply aren't possible

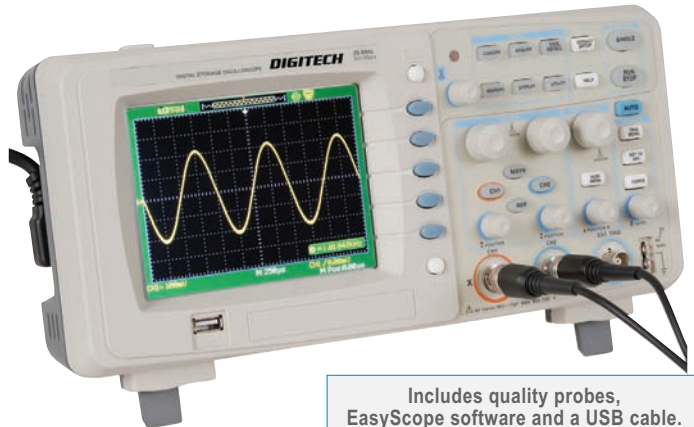
with any analogue oscilloscope, including trace capture, screen capture, PC interface, storage of data on portable media, on-screen menus, mathematical functions etc. The list of features just goes on & on, suffice to say that a DSO is literally chalk and cheese when compared to an old CRO.

25MHz Dual Channel with 5.7" Screen

Ideal entry-level DSO for the advanced hobby user or technician and is particularly suited to audio work. Full data storage capabilities and USB interface so you can store traces on a flash drive. Memory depth 32k

- Full 64k colour TFT display
- Compact size much smaller than an equivalent analogue CRO
- Multi parameter auto measure function
- Fully portable design
- Storage memory
- USB interface
- Multiple trigger modes
- Digital filters
- Split screen display
- On-screen menus
- Multiple language interface

SPECIFICATIONS	QC-1932
Channels	2
Input impedance	1Mohm
Bandwidth	25MHz
Sampling rate	500M Sa/sec
Input coupling	AC, DC, GND
Max input voltage	400V P-P, Cat II
Triggers	Edge, pulse, video, slope, alt, delay
Trigger modes	Auto, normal, single
Mathematical operations	Add, subtract, multiply, divide, invert
DISPLAY MODES	
DC Accuracy	±3%
Data Record Function	Yes
Memory Depth	32K
DISPLAY	
Type	Colour TFT LCD 145mm
Resolution	320 x 234 pixels
Colour	64k
Contrast	150 to 1
Graticule	8 x 12 div.



Includes quality probes, EasyScope software and a USB cable.

VERTICAL	
Vertical sensitivity	2mV - 5V/div
Vertical resolution	8 bit
Rise time	<14ns
Mathematical operations	Add, subtract, multiply, divide, FFT
FFT	Hanning, Hamming, Blackman, Rectangular
HORIZONTAL	
Range	25ns - 50s/div
Accuracy	±50ppm over 1ms
OTHER	
Dimensions/Weight	310(W) x 150(H) x 130(D)mm, 2.4kg
Accessories	2 x 10:1 probes, EasyScope software, USB cable



▲	Cat.	Qty 1+
25MHz	QC-1932	\$549.00

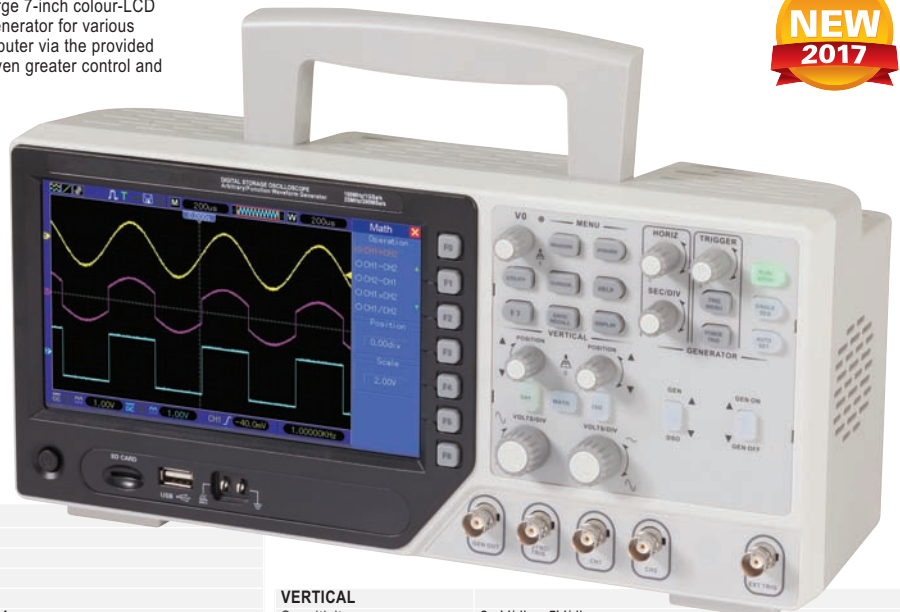
100MHz Dual Channel Oscilloscope with Digital Storage

This is a lightweight and compact unit featuring a large 7-inch colour-LCD for detailed readings. It also includes a waveform generator for various testing applications. By connecting it to your computer via the provided USB cable, you can use the included software for even greater control and data storage options.

- Two channel
- High accuracy
- Powerful Trigger
- Independent Waveform generator
- Synchronized signal Output/Input
- USB host and device connectivity
- Support SD card



See page 194 for our USB Oscilloscope



SPECIFICATIONS	QC-1936
Channels	2
Bandwidth	100MHz
Sampling rate	1G Sa/Sec
Input coupling	AC / DC / GND
Max input voltage	CAT II 300VRMS AC/DC Max
Triggers	Edge, Video, Pulse Width, Pulse, Slope, Over time, Alternative
Trigger modes	Auto, Normal, Single
DC accuracy	+/- 3%
Data record function	Yes
Memory depth	40k
DISPLAY	
Type	7" colour TFT LCD
Resolution	800 x 480
Colour	64k
Contrast	Adjustable
Graticule	8 x 16 div

VERTICAL	
Sensitivity	2mV/div - 5V/div
Resolution	8bit
Rise time	3.5ns
Mathematical operations	Add / subtract / multiply / divide / FFT
FFT	Hanning, Flattop, Rectangular, Bartlett, Blackman
HORIZONTAL	
Time Base	4ns/div to 40s/div
WAVEFORM GENERATOR	
Frequency Range	1Hz~25MHz
Waveforms	Sine, Square, Ramp, Trapezium, AM/FM, Arbitrary, Exponent
Resolution	12 bits
Depth	4Ksa

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	QC-1936	\$899.00	\$809.00	\$719.00

DIGITAL MULTIMETERS

We at Jaycar are proud of every product we sell. We are particularly proud, however, of the solid range of multimeters that we keep.

Our range does not change much from year-to-year. That is because, most of the time, we see no reason to change models. When we stick with a multimeter it is because it has proven to be reliable, sturdy and easy to use.

So this year our main multimeter range has not changed at all. You will have to get to page 205 to find a fantastic new clamp meter.

In the world of electronics where things change overnight it's somehow comforting to see that you don't have to change just for the sake of change.



Remember, so confident are we that we offer a **LIFETIME GUARANTEE** on most DMMs.



COMPARISON GUIDE

	QM-1500	QM-1517	QM-1527	QM-1529	QM-1321	QM-1323	QM-1551	QM-1548	QM-1444	QM-1570	QM-1549	XC-5078	QM-1594	QM-1571	QM-1576	QM-1493
Display (Count)	2000	2000	2000	2000	4000	4000	4000	2000	4000	4000	4000	2000	4000	4000	40000	4000
Security Category	Cat II 500V	Cat III 500V	Cat III 500V	Cat III 600V	Cat III 1000V	Cat III 600V	Cat III 600V	Cat III 600V	Cat III 600V	Cat III 600V	Cat IV 600V	Cat III 600V	Cat III 600V	Cat IV 600V	Cat IV 600V	Cat III 1000V
Backlight		•	•	•	•	•	•		•	•	•		•	•	•	•
Bargraph															•	•
Auto-range				•	•	•	•			•	•	•	•	•	•	
True RMS					•		•			•	•			•	•	
VDC	1000V	500V	500V	600V	1000V	600V	600V	1000V	600V	600V	1000V	600V	250V	1000V	1000V	1000V
VAC	750V	500V	500V	600V	750V	600V	600V	750V	600V	600V	1000V	600V	250V	1000V	1000V	750V
ADC	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	10A	200mA	10A	10A	10A	
AAC	-	-	-	10A	10A	10A	10A	10A	10A	20A	10A	200mA	10A	10A	10A	
Resistance	2M	2M	2M	20M	40M	40M	40M	20M	40M	60M	40M	20M	20M	40M	40M	400R
Capacitance					100µF	100µF	100µF	200µF	100µF	100µF	100µF			100µF	40mF	
Frequency					10MHz	10MHz	10MHz		10MHz	10MHz	10MHz			10MHz	10MHz	
Inductance								20H								
Temperature						760°C	760°C	1000°C	760°C	760°C				760°C	1200°C	
Tachometer									•							
Duty Cycle					•	•	•		•	•	•			•		
Dwell									•							
Continuity			•	•	•	•	•	•	•	•	•	•	•	•	•	
Diode Test	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Transistor Test	•							•								
Data Logger														•	•	
Relative Measurement						•	•		•		•		•	•	•	
Data Hold		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Min / Max Hold					•					•		Max hold		•	•	
Non Contact Voltage			•	•	•	•	•						•	•		
IP Rated										IP65	IP67			IP67	IP67	
Page	197	197	197	198	198	198	199	199	200	200	201	203	201	202	202	203

DIGITAL MULTIMETERS

Low Cost DMM

- 19 Range
- 2000 Count
- Transistor Test
- Diode Test
- 10A DC Current
- Ideal First Teter
- Compact Size



PERFECT FIRST METER

This is a full featured meter with plug-in 4mm probes AND transistor tester. This is the ideal first multimeter, and will give years of faithful service, in fact, you will only need to replace this meter if you require a unit with very high input impedance.



SPECIFICATIONS	QM-1500
Display	2000 count
Security Class	Cat II 500V
Basic VDC accuracy	0.500%
DC voltage	200mV, 2V, 20V, 200V, 1000V ($\pm 0.5\%$)
AC voltage	200V, 750V (Max input 750V RMS) ($\pm 1.2\%$)
DC current	200uA, 2mA, 20mA, 200mA, 10A ($\pm 1.2\%$)
AC current	-
Resistance	200 Ω , 2k Ω , 20k Ω , 200k Ω , 2M Ω ($\pm 1.2\%$)
Capacitance	-
Frequency	-
Inductance	-
Temperature	-
Ave/RMS	Ave
Input impedance	1M
Special features	Transistor test
Battery / Fuse	9V / 500mA/250V (all included)
Dimensions	125(H) x 68(W) x 23(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1500	\$9.95	\$8.75	\$7.75

Economy Cat III Multimeter with Data Hold

- Cat III 600V
- 2000 Count
- Data Hold
- Square Wave Output
- Backlit Display
- Continuity Buzzer



A simple and practical multimeter with a luminous backlit display, data hold function, shock-proof durable design. A fully featured multimeter perfect for a student or the enthusiast on a budget. The durable enclosure helps prevent damage from knocks and falls.



SPECIFICATIONS	QM-1517
Display	2000 Count
Security Class	Cat III 600V
Basic VDC accuracy	2.000%
DC voltage	200mV, 2000mV, 20V, 200V, 500V ($\pm 1.0\% + 10$)
AC voltage	200V, 500V ($\pm 2.0\% + 10$)
DC current	200uA, 2000uA, 20mA, 200mA, 10A ($\pm 2.0\% + 5$)
AC current	-
Resistance	200 Ω , 2k Ω , 20k Ω , 200k Ω , 2M Ω ($\pm 2.0\% + 5$)
Capacitance	-
Frequency	-
Inductance	-
Temperature	-
Ave/RMS	Ave
Input impedance	1M
Special features	Data hold, backlight, square wave output, buzzer
Battery / Fuse	9V / F200mA/250V (all included)
Dimensions	115(H) x 65(W) x 30(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1517	\$14.95	\$13.45	\$11.95

Data Hold DMM with Non Contact AC Voltage Detection

- 19 Range
- 2000 Count
- Non-contact Voltage Detection
- Diode Test
- 10A DC Current
- Data Hold
- Backlight
- Auto Power-off
- Continuity Buzzer

This meter includes QUALITY Test Leads



A handy digital multimeter with lots of features at a great price has all the features you would expect including holster and probes. Excellent for those that are ready to take the next step in the world of electronics. It also features a built-in non-contact voltage detector that sounds an internal buzzer and flashes an LED when the DMM is in close proximity to mains power.



SPECIFICATIONS	QM-1527
Display	2000 count
Security Class	Cat III 500V
Basic VDC accuracy	0.800%
DC voltage	200V, 500V ($\pm 0.8\%$)
AC voltage	200uV, 2mV, 20mV, 200V, 500V ($\pm 1.2\%$)
DC current	200uA, 2mA, 20mA, 200mA, 10A ($\pm 1\%$)
AC current	-
Resistance	200 Ω , 2k Ω , 20k Ω , 200k Ω , 2M Ω ($\pm 1\%$)
Capacitance	-
Frequency	-
Inductance	-
Temperature	-
Ave/RMS	Ave
Input impedance	1M
Special features	Transistor test, data hold, backlight, non-contact voltage
Battery / Fuse	9V / 200mA/600V (all included)
Dimensions	145(H) x 65(W) x 35(H)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1527	\$19.95	\$17.95	\$15.95

DIGITAL MULTIMETERS (CONTINUED)

Autoranging DMM with Non-Contact Voltage Detection

- Cat III 600V
- 2000 count
- Auto ranging
- Non-contact voltage detection
- Backlight
- Data hold
- Low battery warning
- Auto power-off

This meter includes QUALITY Test Leads



This Cat III DMM is suitable for voltages up to 600VAC and has 15mm high digits for easy reference. Featuring overload protection and indication, diode check, continuity check, and you won't have to worry about batteries going flat with the auto power off feature. It also features a built-in non-contact voltage detector that sounds an internal buzzer and flashes an LED when the DMM is in close proximity to mains power.

Autoranging True RMS DMM with Non-Contact AC Voltage Detection

- Cat III 1000V
- 4000 count
- Overload protection
- Capacitance
- Frequency
- Min/max hold
- Backlight
- Auto power off

This meter includes QUALITY Test Leads



Our entry level True RMS Multimeter featuring autoranging, 1000V CAT III rating, Non contact voltage detection. With a sturdy construction and backlight display and quality test leads this is the perfect multimeter for an apprentice or novice hobbyist.

Cat III DMM with Temperature

- Non-contact voltage
- Duty cycle
- Backlight
- Rugged moulded case




This meter includes QUALITY Test Leads



A budget-priced meter with everything you need - capacitance, temperature and 10A on AC and DC, compact and light weight with rugged moulded case.



Case & K-probe included

SPECIFICATIONS	QM-1529		QM-1321		QM-1323	
Display	2000 count		4000 Count		4000 count	
Security Class	Cat II 600V		Cat III 1000V		Cat III 600V	
Basic VDC accuracy	0.800%		1.500%		0.500%	
DC voltage	200mV, 2V, 20V, 200V, 600V (±0.8%)		40mV, 400mV, 4000mV, 40V, 400V, 1000V		400mV, 4V, 40V, 400V, 600V (±0.5%)	
AC voltage	200uV, 2mV, 20mV, 200V, 600V (± 1%)		40mV, 400mV, 4000mV, 40V, 400V, 750V		400mV, 4V, 40V, 400V, 600V (±1.2%)	
DC current	200uA, 2mA, 20mA, 200mA, 10A (± 3%)		400uA, 4000uA, 40mA, 400mA, 4A, 10A		4mA, 40mA, 400mA, 10A (±2.5%)	
AC current	200uA, 2mA, 20mA, 200mA, 10A (± 3%)		400uA, 40mA, 400mA, 4A, 10A		4mA, 40mA, 400mA, 10A (±3%)	
Resistance	200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ (± 1.5%)		400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ		400Ω, 4kΩ, 40kΩ, 400kΩ, 40MΩ (±1.2%)	
Capacitance	-		10nF, 100nF, 1μF, 10μF, 100μF, 1mF, 10mF, 100mF		4nF, 40nF, 4μF, 40μF, 100μF (±3%)	
Frequency	-		10Hz, 100Hz, 1kHz, 10kHz, 100kHz, 1MHz, 10MHz		4kHz, 40kHz, 400kHz, 4000kHz, 10MHz (±1.5%)	
Inductance	-		-		-	
Temperature	-		-		-20°C to +760°C (±3%)	
Ave/RMS	Ave		True RMS		Ave	
Input impedance	10M		10M		10M	
Special features	Data hold, backlight, non-contact voltage		Backlight, min/max hold		Non-contact voltage, duty cycle, backlight	
Battery / Fuse	2 x AAA / 200mA/600V (all included)		9V / 0-5A/1000V 10A/1000V (all included)		9V / F10A/250V, F500mA/250V (all included)	
Dimensions	140(H) x 70(W) x 31(D)mm		200(H) x 92(W) x 60(D)mm		138(H) x 68(W) x 37(D)mm	

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1529	\$24.95	\$22.45	\$19.95

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1321	\$39.95	\$35.90	\$31.90

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1323	\$49.95	\$44.95	\$39.95

DIGITAL MULTIMETERS (CONTINUED)

Cat III Inductance Capacitance DMM

- Hfe Transistor Test
- Inductance
- Capacitance
- Auto Power-Off
- 10A AC & DC Current
- Diode Test
- Audible Continuity
- Data Hold



This meter
includes **QUALITY**
Test Leads

A feature packed DMM with wide range of inductance and capacitance measurement which are measured via the standard probes. Ideal for audio enthusiasts designing their own crossovers.

Features large LCD, auto power-off and temperature measurement.



Cat III True RMS Autoranging 4000 Count DMM with Temperature & Non-Contact AC Voltage Detection

- Backlit LCD
- Leads & K-type Thermocouple Included
- Automatic (-) Negative Polarity Indication
- Data Hold
- 30 Min Auto Power Off
- Carry/Storage Case For Dmm & Leads



This meter
includes **QUALITY**
Test Leads

A powerful true RMS multimeter that includes non-contact voltage testing, backlit LCD, and a carrying pouch. The rear of the unit has a foldout stand so you can sit the meter at a comfortable viewing angle on your desk, workbench or car. Powered by 1 x 9V battery (included)

SPECIFICATIONS	QM-1548		QM-1551	
Display	2000 count		4000 count	
Security Class	Cat III 600V		Cat III 600V	
Basic VDC accuracy	0.500%		0.500%	
DC voltage	200mV, 2V, 20V, 200V, 1000V (±0.5%)		400mV, 4V, 40V, 400V, 600V (±1.5%)	
AC voltage	200mV, 2V, 20V, 200V, 750V (±0.5%)		400mV, 4V, 40V, 400V, 600V (±2.0%)	
DC current	20mA, 200mA (±1.0%), 10A (±2.0%)		400µA, 4000µA, 40mA, 400mA, 10A (±1.5%)	
AC current	2mA, 200mA (±1.0%), 10A (±3.0%)		400µA, 4000µA, 40mA, 400mA, 10A (±1.8%)	
Resistance	200Ω, 2KΩ, 20KΩ, 200KΩ, 2MΩ, 20MΩ (±0.8%)		400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (±1.2%)	
Capacitance	20nF, 200nF, 2µF, 200µF (±4.0%)		40nF, 400nF, 4µF, 40µF, 100µF (±3%)	
Frequency	-		5Hz, 50Hz, 500Hz, 5kHz, 50kHz, 500kHz, 5MHz, 10MHz (±1.2%)	
Inductance	20mH, 200mH, 2H, 20H (±3.0%)		-	
Temperature	-20°C to +1000°C (±3.0%)		-20°C-760°C / -4°F-1400°F (±3%)	
Ave/RMS	Ave		True RMS	
Input impedance	10M		7.8M	
Special features	Hfe test, temperature, inductance		Continuity, diode check, blue backlit LCD, non-contact voltage, foldout stand	
Battery	9V		9V / 500mA/250V, F10A/250V (all included)	
Dimensions	195(H) x 92(W) x 55(H)mm		138(L) x 68(W) x 37(D)mm	

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1548	\$64.95	\$58.45	\$51.95

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1551	\$69.95	\$62.95	\$55.95

DIGITAL MULTIMETERS (CONTINUED)

Automotive DMM with Inductive Pickup

- RPM x1, x10
- Inductive pickup for RPM
- Dwell Angle
- Resistance
- DC Volts
- Temperature
- Frequency
- Duty Cycle %
- Data Hold & Relative Function



This meter includes **QUALITY** Test Leads

A multimeter for all your automotive diagnostic needs. Features an inductive pickup for RPM measurement, dwell angle, frequency, duty cycle, data hold, relative function, backlit display and temperature, and works with engines of 2 to 10 cylinders. An absolute must have for the backyard mechanic or qualified tradesperson alike. Probes, alligator clip probes and holster included.

Mini True RMS Digital Multimeter, Autoranging

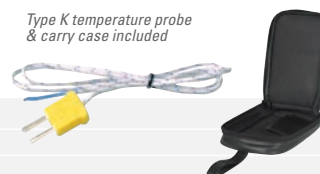
- IP65 Weatherproof
- True RMS
- Auto Power-Off
- Backlight
- Data Hold & Relative Function
- Duty Cycle %
- Audible Continuity
- 10A Current Range



This meter includes **QUALITY** Test Leads

This compact true RMS digital multimeter has a double moulded plastic housing and high contrast 4000 count LCD display. Duty Cycle: 9.99%. It is IP65 rated and has been drop tested to a height of 2 metres. Includes test leads, 9V battery and carry case.

Type K temperature probe & carry case included



SPECIFICATIONS	QM-1444
Display	4000 count
Security class	Cat III 600V
Basic VDC accuracy	1.500%
DC voltage	400mV, 4V, 40V, 400V, 600V ($\pm 1.5\%$)
AC voltage	4V, 40V, 400V, 600V ($\pm 1.5\%$)
DC current	400uA, 4mA, 40mA, 400mA ($\pm 1.5\%$), 4A, 10A ($\pm 2.5\%$)
AC current	400uA, 4mA, 40mA, 400mA, 4A, 10A
Resistance	400 Ω , 4k Ω , 40k Ω , 400k Ω , 4M Ω , 40M Ω ($\pm 1.2\%$)
Capacitance	40nF, 400nF, 4uF, 40uF, 100uF ($\pm 3.0\%$)
Frequency	5Hz-10MHz ($\pm 1.2\%$)
Inductance	-
Temperature	-20°C to +760°C ($\pm 3.0\%$)
Ave/RMS	Ave
Input impedance	10M
Special features	Inductive pickup, Dwell, RPM, duty cycle
Battery / Fuse	9V / F10A/250V, F500mA/250V (all included)
Dimensions	146(H) x 66(W) x 42(D)mm



SPECIFICATIONS	QM-1570
Display	4000 count
Security class	Cat III 600V
Basic VDC accuracy	0.5%
DC voltage	400mV, 4V, 40V, 400V, 600V (1.0%)
AC voltage	4V, 40V, 400V, 600V (1.2%)
DC current	400uA, 4000uA, 40mA, 400mA, 4A, 10A (1.2%)
AC current	400uA, 4000uA, 40mA, 400mA, 4A, 10A (1.8%)
Resistance	400 Ω , 4k Ω , 40k Ω , 400k Ω , 4M Ω , 40M Ω (1.5%)
Capacitance	40nF, 400nF, 4uF, 40uF, 400uF, 4000uF (4.5%)
Frequency	Up to 10KHz (1.2%)
Inductance	-
Temperature	-20°C to 750°C ($\pm 1.2\%$)
Ave/RMS	RMS
Input impedance	10M
Special features	Non contact ACV detection, Data Hold, Min/Max Recording, Heavy Duty & Compact
Battery / Fuse	2 x AAA / F10A/600V, F500mA / 600V (all included)
Dimensions	135(H) x 70(W) x 45(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1444	\$79.95	\$71.95	\$63.95

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1570	\$89.95	\$80.95	\$71.95

DIGITAL MULTIMETERS (CONTINUED)

IP67 True RMS Autoranging Cat IV DMM

- IP67 Waterproof
- True RMS
- Auto Power-Off
- Backlight
- Data Hold & Relative Function
- Diode Test
- Autoranging
- Audible Continuity
- 10A Current Range



This meter includes QUALITY Test Leads

This is an excellent true RMS multimeter that features a large, easily read display and carries an IP67 environmental rating. This means the multimeter is waterproof and will not be damaged if accidentally dropped into water or left out in the rain. The meter has data hold and relative measurement capabilities and is housed in a robust, double moulded case. Includes leads, soft carry case and user manual.

Multifunction Environment Meter with DMM



- Sound Level Meter
- Light Level Meter
- Indoor Temperature & Humidity Measurement
- Non Contact Voltage

This meter includes QUALITY Test Leads



A multi-function environment meter that combines the functions of a sound level meter, light meter, humidity meter and temperature meter. Typical sound applications include checking acoustics of recording studios, auditoriums and professional hi-fi installations.

The light and humidity meters are ideal for video photographers, greenhouse and hydroponic setups, etc. Others who should find this meter essential include interior designers, factory and office managers, record and archive keepers, schools, hospitals, laboratories and, of course, universities.

SPECIFICATIONS	QM-1549		QM-1594	
Display	4000 count		4000 count	
Security Class	Cat IV 600V		CAT IV 600V	
Basic VDC accuracy	0.500%		0.500%	
DC voltage	400mV, 4V, 40V, 400V, 1000V (±0.5%)		400mV, 4V, 40V, 100V, 250V (±1%)	
AC voltage	400mV, 4V, 40V, 400V, 1000V (±0.8%)		400mV, 4V, 40V, 100V, 250V (±1.2%)	
DC current	4mA, 40mA, 400mA, 10A (±1.2%)		400µA, 4mA, 40mA, 400mA, 10A (±1%)	
AC current	4mA, 40mA, 400mA, 10A (±1.8%)		400µA, 4mA, 40mA, 400mA, 10A (±1%)	
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 40MΩ (±0.8%)		400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (±0.8%)	
Capacitance	4nF, 40nF, 4µF, 40µF, 100µF (±3%)		50nF, 500nF, 5µF, 50µF, 100µF (±3.5%)	
Frequency	4kHz, 40kHz, 400kHz, 4MHz 10MHz (±1.5%)		5Hz, 50Hz, 500Hz, 5kHz, 500kHz, 10MHz (±1.5%)	
Inductance	-		-	
Temperature	-		-20°C to 750°C (±1.2%)	
Ave/RMS	True RMS		Ave	
Input impedance	10M		10M	
Special features	IP67, data-hold, relative measurement, backlight		LUX, SPL, Humidity	
Battery / Fuse	9V / F10A/1000V, F500mA/100V (all included)		9V / F10A/600V, F500mA/600V (all included)	
Dimensions	182(L) x 82(W) x 55(D)mm		170(H) x 78(W) x 48(D)mm	
▲	Cat. QM-1549	Qty 1+ \$94.95 Qty 3+ \$85.45 Qty 6+ \$75.95	▲	Cat. QM-1594 Qty 1+ \$129.00 Qty 3+ \$115.95 Qty 6+ \$102.95

DIGITAL MULTIMETERS (CONTINUED)

IP67 True RMS Autoranging Cat IV DMM with Wireless USB Interface

- IP67 Waterproof
- True RMS
- Wireless USB Interface
- PC Logging Software
- Auto Power-Off
- Backlight
- Non-Contact Voltage
- Data Hold
- Diode Test
- Autoranging
- Audible Continuity
- 10A Current Range
- Double Moulded Case



This meter includes QUALITY Test Leads

A quality true RMS multimeter with a wireless USB computer interface, non-contact voltage indicator, relative zero and data hold. Double moulded housing is impact resistant and quite durable, and IP67 waterproof rating makes this DMM capable of even the harshest conditions.

Wireless USB interface and included logging software allow for computer based live data logging whilst keeping your computer completely isolated and protected.

SPECIFICATIONS	QM-1571
Display	4000 count
Security Class	Cat IV 600V
Basic VDC accuracy	0.500%
DC voltage	400mV, 4V, 40V, 400V, 1000V ($\pm 0.5\%$)
AC voltage	400mV, 4V, 40V, 400V, 1000V ($\pm 0.8\%$)
DC current	4mA, 40mA, 400mA, 10A ($\pm 1.2\%$)
AC current	4mA, 40mA, 400mA, 10A ($\pm 1.8\%$)
Resistance	400 Ω , 4k Ω , 40k Ω , 400k Ω , 40M Ω ($\pm 0.8\%$)
Capacitance	4nF, 40nF, 4 μ F, 40 μ F, 100 μ F ($\pm 3\%$)
Frequency	4kHz, 40kHz, 400kHz, 4MHz, 10MHz ($\pm 1.5\%$)
Inductance	-
Temperature	-20°C to +760°C ($\pm 3.0\%$)
Ave/RMS	True RMS
Input impedance	10M
Special features	Wireless USB, IP67, True RMS, non-contact voltage
Battery / Fuse	9V / F10A/1000V, F500mA/1000V (all included)
Dimensions	170(L) x 79(W) x 50(H)mm



IP 67 True RMS Cat IV DMM with Meterbox Smartphone App

Meterbox app available on Google Play and iTunes®.



- IP 67 Waterproof
- True RMS
- Bluetooth® Smartphone/ PC Interface
- Data Log Storage
- 9999 Measurement
- Triple LCD With Bargraph
- Backlight
- Auto Power-Off
- Data Hold/Min/Max Recording
- Relative Measurement
- Diode Test
- Autoranging
- Audible Continuity
- 10A Current Range
- Double Moulded Case

This meter includes QUALITY Test Leads



Smartphone screenshot



A multimeter with all the bells and whistles you would expect from our flagship multimeter, but it's so much more than that. With an in-built Bluetooth® module, this DMM can connect to your Smartphone, and using the free Meterbox app you can do everything you would expect to be able to do with a PC, and more. Stop carrying a laptop to job sites, all you need is this multimeter and the phone you already had in your pocket! View live measurements, trend graphs, data log, email your results and upload them to the cloud for your colleagues to review - all from your Smartphone! Of course, it still has all the other top notch features like a double moulded case for impact resistance and IP67 waterproof protection, internal data storage capability, data hold with min/max recording, wide capacitance range, and much more. For easy reading, a triple LCD backlit screen with bargraph displays all measurements clearly under all conditions. A truly fantastic and ground breaking multimeter design

• Meterbox Smartphone app.

SPECIFICATIONS	QM-1576
Display	40,000 count (0.01mV, 0.01uA, 0.01R)
Security Class	Cat IV 600V
Basic VDC accuracy	0.060%
DC voltage	400mV, 4V, 40V, 400V, 1000V (+/- 0.06%)
AC voltage	400mV, 4V, 40V, 400V, 1000V (+/- 1.0%)
DC current	400uA, 4mA, 40mA, 400mA, 10A (+/- 1%)
AC current	400uA, 4mA, 40mA, 400mA, 10A (+/- 1.5%)
Resistance	400 Ω , 4K Ω , 40K Ω , 400K Ω , 40M Ω (+/- 0.3%)
Capacitance	4nF, 40nF, 400nF, 4uF, 40uF, 400uF, 4mF, 40mF (+/- 3.5%)
Frequency	4kHz, 40kHz, 400kHz, 4MHz, 10MHz (+/- 0.1%)
Inductance	-
Temperature	-20°Celsius to +1200°Celsius (+/- 1%)
Ave/RMS	True RMS
Input impedance	10M
Special features	Bluetooth®, Meterbox Smartphone app, data logging, IP67, bargraph, data hold/storage, triple LCD display
Battery / Fuse	9V / F10A/1000V, F500mA/1000V (all included)
Dimensions	182(L) x 82(W) x 55(D)mm



Cat III Insulation Tester/Multimeter

- This meter includes **QUALITY** Test Leads



It also has AC/DC voltage and low resistance multimeter functions. Moulded storage case and holster included.

- Autoranging
- LAN Cable Tester
- Diode Test
- Multimeter Functions
- Audible Continuity
- Case Included
- LAN Tester Checks Faults & Missed Wired Conductors
- Manual Or Automatic Testing



This meter includes QUALITY Test Leads




This innovative device is ideal for network installers or technicians & will allow the user to easily check cable integrity or measure AC & DC voltage, current, resistance, & continuity etc. without needing to carry two separate devices. The unit will check for cable continuity, open-circuits, short-circuits, & cross-connects etc. A remote terminator is included and enables the user to check network cables at a wall jack or patch panel. Supplied with loop back cable, LAN terminator, & multimeter leads.

- Holster Included
- Audible Continuity
- 20K Ω /Volt

This meter includes QUALITY Test Leads



It's a beauty.

SPECIFICATIONS		QC-1493		XC-5078		QM-1020					
Display		4000 count		2000 count		-					
Security class		Cat III 1000V		Cat III 600V		-					
Basic VDC accuracy		0.800%		0.500%		3.000%					
DC voltage		1000V (±0.8%)		200mV, 2V, 20V, 200V, 600V (±0.5%)		100mV, 500mV, 2.5V, 10V, 50V, 250V, 1000V (±3.0%)					
AC voltage		750V (±1.2%)		200mV, 2V, 20V, 200V, 600V (±1.2%)		10V, 50V, 250V, 1000V (±4.0%)					
DC current		-		2mA, 20mA, 200mA (±1.5%)		50uA, 2.5mA, 25mA, 250mA (±3.0%)					
AC current		-		2mA, 20mA, 200mA (±2.0%)		-					
Resistance		400Ω (±1.5%)		200Ω, 2kΩ, 20kΩ, 200kΩ, 20MΩ (±0.8%)		2kΩ, 20kΩ, 200kΩ, 2MΩ, 20MΩ (±3.0%)					
Capacitance		-		-		-					
Frequency		-		-		-					
Inductance		-		-		-					
Temperature		-		-		-					
Ave/RMS		-		Ave		Ave					
Input impedance		-		10M		10M					
Special features		Insulation Resistance 4M, 40M, 400M, 4000M (±2%), Continuity Test, Bargraph, Backlit, Data hold, Analogue Bargraph		Data hold, max hold		dB, continuity buzzer.					
Battery / Fuse		6 x AA (all included)		9V, 2 x AAA / F200mA/250V (all included)							
Dimensions		200(L) x 92(W) x 50(D)mm		162(L) x 74.5(W) x 44(D)mm		150(L) x 100(W) x 35(D)mm					
▲		Cat.	Qty 1+	Qty 3+	Qty 6+	▲	Cat.	Qty 1+	Qty 3+	Qty 6+	
		QM-1493	\$269.00	\$239.00	\$209.00			QM-1020	\$29.95	\$26.95	\$23.95

CLAMPMETERS

400A AC Clampmeter

- Autoranging
- Relative Mode
- Diode Test
- Audible Continuity
- Data Hold
- Auto Power-Off
- Jaw Opening 30mm
- Temperature Probe
- Carrying Case

This meter includes QUALITY Test Leads



400A AC/DC Clampmeter

- Autoranging
- Relative Mode
- Diode Test
- Audible Continuity
- Data Hold
- Auto Power-Off
- Jaw Opening 30mm
- Temperature Probe
- Carrying Case

This meter includes QUALITY Test Leads



1000A True RMS AC/DC Clampmeter

- Autoranging
- Relative Mode
- Diode Test
- Audible Continuity
- Data Hold
- Min/Max Mode
- Auto Power-Off
- Jaw Opening 40mm
- Temperature Probe
- Carrying Case

This meter includes QUALITY Test Leads






Our entry-level clampmeter. It has most of the features of the bigger models, such as data hold and auto power-off, but with only AC current measuring capability.

Easy one-hand operation makes this meter perfect for the working installer or tradesman. This is a quality, intermediate-level clampmeter with more than useful current ranges up to 400 amps AC and DC.

Ideal for electrical fitters and contractors working with high currents, this meter will read up to 1000A AC or DC.

It has every feature you'll ever need in your trade.

SPECIFICATIONS	QM-1561		QM-1563		QM-1566	
Display	4000 count		4000 count		6000 count	
Security Class	Cat III 600V		Cat III 600V		Cat III 600V	
Basic VDC accuracy	0.500%		0.500%		0.800%	
DC voltage	400mV, 4V, 40V, 400V, 600V (±0.5%)		400mV, 4V, 40V, 400V, 600V (±0.5%)		600mV, 6V, 60V, 600V (±0.5%)	
AC voltage	400mV, 4V, 40V, 400V, 600V (±1.5%)		400mV, 4V, 40V, 400V, 600V (±1.5%)		600mV, 6V, 60V, 600V (±1.5%)	
DC current	-		40A, 400A (±2.0%)		600A, 1000A (±2.0%)	
AC current	40A, 400A (±2.5%)		40A, 400A (±2.5%)		600A, 1000A (±2.5%)	
Resistance	4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (±3.0%)		4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ (±3.0%)		6kΩ, 60kΩ, 600kΩ, 6MΩ, 40MΩ (±3.0%)	
Capacitance	4nF, 40nF, 400nF, 4uF, 40uF, 100uF (±2.5%)		4nF, 40nF, 400nF, 4uF, 40uF, 100uF (±2.5%)		6nF, 60nF, 600nF, 6uF, 60uF, 100uF (±2.5%)	
Frequency	4kHz, 40kHz, 400kHz, 4MHz, 10MHz (±1.2%)		4kHz, 40kHz, 400kHz, 4MHz, 10MHz (±1.2%)		6kHz, 60kHz, 600kHz, 6MHz, 10MHz (±1.2%)	
Inductance	-		-		-	
Temperature	-20°C to +1000°C (±3%)		-20°C to +1000°C (±3%)		-20°C to +1000°C (±3%)	
Ave/RMS	Ave		Ave		True RMS	
Input impedance	10M		10M		10M	
Special features	Data hold, non-contact voltage, relative measurement		Data hold, non-contact voltage, relative measurement		Backlight, non-contact voltage, data hold, min-max, relative measurement, bargraph	
Battery	2 x AAA (included)		2 x AAA (included)		9V	
Dimensions	198(L) x 66(W) x 36(D)mm		198(L) x 66(W) x 36(D)mm		230(L) x 76(W) x 40(D)mm	

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1561	\$69.95	\$62.95	\$55.95

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1563	\$129.00	\$115.95	\$102.95

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1566	\$159.00	\$142.95	\$126.95

CLAMPMETERS (CONTINUED)

3000A True RMS AC High Current Clampmeter

- True RMS
- Autoranging
- Flexible loop
- Data Hold
- Min/Max Mode
- Backlit LCD
- Auto Power-Off

Featuring a whopping 3000A measurement capability, the design is a little different from a typical clamp meter. Instead of having a set of "jaws" it has a flexible loop that unclips on one side. Run it around your cable then lock it back into the unit. Features min/max and data hold, and a backlit LCD. It's CATIII 1000V and CATIV 600V rated. Features autoranging to maximise resolution at low currents too.

- Massive 3000A current measurement
- Flexible "clamp" loop

SPECIFICATIONS	QM-1568
AC Current	3000A
Resolution	0.01A (Low Range), 1A (High Range)
Measurement Type	True RMS
Class	CATIV 600V, CATIII 1000V
Batteries	2 x AAA included
Weight	190g
Dimensions	270(H) x 105(W) x 28(D)mm (When Closed)

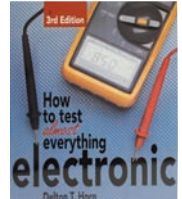


How to Test Almost Everything Electronic

Electronics is a unique science - everything that's going on has to be deduced from visible symptoms and effects with very little that is actually physically observable. The book covers everything from setting up a test and work area to using the most important types of test equipment - multimeters, oscilloscopes, signal generators, signal tracers, capacitance meters and frequency counters. It also covers testing and measurement methods, fault finding without circuit diagrams, component testing and some highly specialised measurement in applications such as audio and TV.

A comprehensive volume that should be on every technical bookshelf.

- Softcover 326 pages. 190 x 130mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1568	\$119.00	\$106.95	\$94.95

▲	Cat.	Qty 1+
	BM-7200	\$49.95

MULTIMETER ACCESSORIES

Fast Acting Cartridge Fuses

FOR USE IN MULTIMETERS

Used in many well-known multimeters including Listed by Underwriters Laboratories and certified by CSA. Fast acting fuse designed for use in circuits with high AC fault current capacity.

600V 15A (SUITS FLUKE)	Cat. SF-2274
600V 1A (SUITS FLUKE)	Cat. SF-2276

Spare ferrule fuses for our IP67 CAT IV rated DMMs:

1000V 500MA	Cat. SF-2278
1000V 800MA	Cat. SF-2279
1000V 10A	Cat. SF-2277

Spare fuses for selected Digitech DMM:

600V 0.5A M205	Cat. SF-2269
500V 10A 3AB	Cat. SF-2272

Note: Not stocked in all stores, but can be ordered



▲	Size (mm)	Current	Voltage	Cat.	Qty 1+	Qty 3+	Qty 6+
	32 x 6.3	0.5A	1000V	SF-2278	\$9.95	\$8.75	\$7.75
	32 x 6.3	0.8A	1000V	SF-2279	\$9.95	\$8.75	\$7.75
	35 x 10	1A	600V	SF-2276	\$8.95	\$7.95	\$6.95
	38 x 10	15A	600V	SF-2274	\$17.95	\$15.95	\$14.35
	38 x 10	10A	1000V	SF-2277	\$14.95	\$13.35	\$11.70
	20 x 5.0	0.5A	600V NEW	SF-2269	\$3.95	\$3.55	\$3.15
	32 x 6.3	10A	500V NEW	SF-2272	\$1.25	\$1.10	\$0.97

Probe K Type Thermocouple



This plug in thermocouple probe allows you to measure external temperature readings on DMMs. It will measure from below minus 50°C to above 250°C depending on the DMM it is used with. Suitable for gas and liquid, both with good accuracy of 0.75%.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1282	\$14.95	\$13.35	\$11.70

Wire Type K Thermocouple with Twin Banana Plugs



Similar to our other thermocouples, this one is fitted with banana plug terminations but does not have a 'probe' assembly. The thermocouple junction will measure over a wide range of temperature but this will depend on the DMM used.

- Typical thermocouple measurement range from as low as -50°C to over 1200°C

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1284	\$11.95	\$10.70	\$9.50

Wire Type K Thermocouple



This is essentially the same as the probe type shown on this page, except that the sensor is mounted on the end of the cable - no probe. Suits digital multimeters. Measures from below minus 40°C to over 1200°C, actual range depends on the DMM its used with.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1283	\$11.95	\$10.70	\$9.50

Multimeter Carry Case

Hard wearing and good looks make this multimeter case perfect for protecting your valuable multimeter from harm. With foam lining to cushion the meter, it zips up tight guarding it from dirty, dusty conditions.

- Dimensions: 190(L) x 125(W) x 45(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	HB-6361	\$6.95	\$6.25	\$5.50

Retractable 3m Alligator Test Lead Set

Set of 3 heavy duty leads in red, black, and green terminated with insulated alligator clips in a handy retractable reel. 3m in length, it is ideal for testing and troubleshooting electronic systems by connecting from components in machinery to test equipment or bypassing long wiring to isolate a fault.

- Rating when wound: 6A
- Rating when unwound: 10A
- Lead Length: 3m
- Reel Dimensions: 152(Dia) x 20(W)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	WT-5334	\$29.95	\$26.90	\$23.70

Jumper Lead Kits

STANDARD

Ideal for connecting devices for testing. Alligator clip size is approx 40mm, jaw opening is about 8mm and cable length is approx 400mm.

- 10 leads supplied 2 of each colour.

HEAVY DUTY

This kit has large alligator clips and heavy cable. The alligator clips are approximately 50mm long, and have jaw openings of about 10mm. Cable length is approx 300mm.

- 10 leads supplied, 2 of each colour.



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	Heavy Duty WC-6020	\$11.95	\$10.70	\$9.50
	Standard WC-6010	\$6.95	\$6.25	\$5.35

TEST & JUMPER LEADS

Parrot™ Clip Leads

The Parrot™ Clip is the only test probe that provides both clip-on hands free contact as with an EZ-hook and normal point contact like a test probe. These feature a sprung hook, which is soldered directly to the lead and housed inside a round metal tube. The grip is performed between the 2 metal parts, which can be used as pincers if required. Probes are supplied with 1m leads terminated to banana plugs and are fully insulated to 1000V.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5330	\$24.95	\$22.35	\$19.70

Multimeter Probe Alligator Clips

Turn your DMM probes into clips!

- These alligator clips simply push onto the end of the test probes
- Length approximately 55mm
- Jaw opening 8mm
- Sold as a pair - 1 red, 1 black



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5220	\$3.95	\$3.45	\$3.15

16 Piece Test Lead Set

Consists of two leads with screw sockets on each end. Attachments screw in. All colour coded red and black.

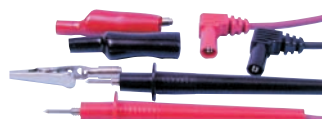
- 4 x alligator clips
- 4 x 2mm pin tips
- 4 x banana plugs
- 2 x spade lugs



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5218	\$9.95	\$8.75	\$7.75

Multimeter Test Probes Shrouded Type

- Banana plugs are right angle with 15mm covered pin.
- Alligator clips included



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5325	\$15.95	\$13.95	\$12.45

2mm Test Probes for Multimeters

- Sold as a pair



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Black/Red	PP-0425	\$3.75	\$3.30	\$2.95

Multimeter Test Probes

With 4mm right angle unshrouded banana plugs.

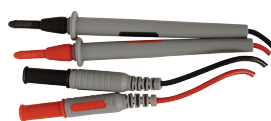
- Length 930mm
- Suits QM-1500, etc



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5316	\$4.95	\$4.45	\$3.90

CAT IV Test Lead Set

CAT IV Test Lead Set with straight banana plugs.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5333	\$11.95	\$10.70	\$9.50

High Quality Banana Piggyback Test Leads

A set of factory-moulded piggy-back style banana plugs, each connected by one metre of high-quality, ultra-flexible 500VDC, 12A rated cable.

- Contains 2 x black, 2 x red and 1 each of blue, yellow and green leads - 7 in all



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5326	\$29.95	\$26.95	\$23.95



Test Leads

Banana plugs to clip. There are many situations where multimeter probes are difficult to use.

- Length: 700mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	WT-5320	\$5.95	\$5.25	\$4.75

EZ Hook Test Clips - 40mm

Suitable for ICs, transistors, PC pins, etc. Push syringe action. Hirshmann style.



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	HM-3036	\$1.75	\$1.55	\$1.40
Black	HM-3037	\$1.75	\$1.55	\$1.40

IC Test Clips

These have a syringe action and are ideal for working with small components. Length 57mm.



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
Red	HM-3040	\$1.95	\$1.75	\$1.55
Black	HM-3041	\$1.95	\$1.75	\$1.55

Professional Cat IV Multimeter Probes

Professional multimeter test probes have always been an expensive choice so what we've done is work closely with a manufacturer to get great quality probes at a genuinely affordable price! There is no longer a need to settle for second best with your multimeter probes, especially if you have them in your hand almost every day.

To start with, we've made them extra long; they're 1200mm long so you don't drag your meter across your workbench as you move around a circuit and makes them perfect for bench top meters. They're Cat IV rated for safety, feature finger guards and can handle 20A of current. The best part is the actual probes themselves. To start with, the probes are suitable for inserting into a standard 4mm banana socket using the same spring hold system. Also included are probe covers which not only stop the sharp points being dangerous, they allow only just the tip to be exposed for delicate work where you can be in danger of making a short between two connections which are close together.

- Extra long 1200mm
- 600V Cat IV rated
- 20A current rating

Probes suitable for inserting (and holding) in 4mm banana sockets. Probe safety cover with slot for delicate work. Comfortable and ergonomic grip. Sold as a pair.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Pair	WT-5338	\$21.95	\$19.75	\$17.75

Cat III Rated Banana Alligator Plugs

Takes standard and fully insulated 4mm banana plugs and turns them into an alligator clip.

- CATIII rated
- Sold as a pair, red and black



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
Pair	PA-3696	\$9.95	\$8.75	\$7.75

Alligator Clips

- Sold as a pair
- 1 x red & 1 x black



▲		Cat.	Qty 1+	Qty 10+	Qty 50+	
	26mm	Pair	HM-3020	\$1.50	\$1.35	\$1.20
	32mm	Pair	HM-3022	\$1.95	\$1.75	\$1.55

Alligator Clips with Screw

No soldering required. Large alligator clips with plastic finger grips and a screw for connection.

- Length: 55mm
- Max jaw opening 12mm
- Sold as a pair or singly



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
1 x Red & 1 x Black, Pair	HM-3025	\$2.45	\$2.15	\$1.95

ENVIRONMENT SENSORS

Plug-in Environment Sensors for Smartphones with APP

Turn your Smartphone into a pocket environment meter. Choose between four plug-in sensors that plug into the Smartphone's earphone socket to measure radiation, UV index, electromagnetic fields or temperature & humidity. By using a free downloadable APP for your iOS® and Android® device, you can see real time measurements or trigger an alarm when a pre determined measurement is reached. Intended for domestic use and readings, should only be used as a guide.

Note: Smartphone not included



PLUG-IN GEIGER MODULE FOR SMARTPHONES - CAT. QM-1676

Measures radiation coming out from a radioactive substance in dose-rate figure (uSv/h) and sound an alarm at a preset level.



SPECIFICATIONS	QM-1676
Measurements	Gamma, X-ray
Measuring range	0.1-200µSv/h
Measurement error	< ±15%
Operating temperature	10-40°C
Dimensions	47(L) x 10(Dia.)mm, 6g



PLUG-IN ELECTROMAGNETIC SENSOR FOR SMARTPHONES - CAT. QM-1678

Measures the electromagnetic waves around on your Smartphone in V/m (Volt/Metre) in real time.



SPECIFICATIONS	QM-1678
Measurements	Electromagnetic field (EMF)
Minimum response	1V/m
Range	1 - 2,000V/m
Frequency	16Hz - 100kHz
Dimensions	30(L) x 10(Dia.)mm, 6g



PLUG-IN UV MODULE FOR SMARTPHONES - CAT. QM-1677

Returns the UV index and power. Set the UV Index alarm to remind you to put on some sun block.



SPECIFICATIONS	QM-1677
Measurements	UV (Ultraviolet)
Range	240 - 380nm
Detects	UVA, UVB
UVI (UV Index) range	0 - 12
UV Power	0 - 6mW/cm2
Measurement error	± 10%
Workable temperature	-20 - 50°C
Workable humidity	< 80%
Sensor type	Semiconductor sensor
Dimensions	30(L) x 10(Dia.)mm, 6g

Note: Colours may vary to ones shown



PLUG IN TEMPERATURE & HUMIDITY SENSOR FOR SMARTPHONES - QM-1679

Take temperature and humidity readings inside or out.



SPECIFICATIONS	QM-1679
Measurements	Temperature & humidity
Temperature range	-40°C to 120°C
Temperature step	0.1°C
Temperature error	±0.5°C
Temperature measure time	15sec
Humidity range	0 - 100%
Humidity step	1%
Humidity error	±2.5%
Humidity measure time	10sec
Dimensions	30(L) x 20(Dia.)mm, 10g



	Cat.	Qty 1+	Qty 3+	Qty 6+
Geiger Module	QM-1676	\$34.95	\$31.45	\$27.90
UV Module	QM-1677	\$34.95	\$31.45	\$27.90
Electromagnetic Sensor	QM-1678	\$34.95	\$31.45	\$27.90
Temperature and Humidity Sensor	QM-1679	\$34.95	\$31.45	\$27.90

RELATED PRODUCTS

FROM
\$9.95
PP-2142



ALTERNATOR BATTERY MONITOR P463

FROM
\$64.95
QM-1494



MULTIFUNCTION AUTO TESTER P463

FROM
\$79.95
QM-1448



DIGITAL TACHOMETER P463

FROM
\$16.95
QP-2212



AUTO TESTER P463

INSPECTION CAMERAS

USB Mini Inspection Camera with 1.5m Flexible Cable

Inspect areas your head or hands simply can't fit into and your limited humans eyes can't see. Ideal for finding dropped screws/bolts, seeing inside car engine bays, checking inside pipes, under grates, up rangehoods, in ceilings, and much more.

This unit comes with three brilliant add-ons, a hook, a magnet, and a 45 degree mirror that can be attached to the end of the camera to help you retrieve those important bits. There are 4 white LEDs at the front of the camera that can have their brightness adjusted with a dial fused onto the cable.

With the supplied software you can also capture video and images for playback at a later date. Requires no batteries, just connect to your laptop and start viewing.

- Water resistant camera head and cable
- 4 White LED Lights (brightness adjustable)
- Compatible with Windows XP, Vista, 7, 8 & 10

SPECIFICATIONS	QC-3373
Flexible cable neck diameter	5mm
USB cable	USB2.0
Camera head outer diameter	10mm
Resolution	640x480
Lens view angle	54°
Focal distance	6cm-infinite
Frame rate	up to 30fps @ 640x480
Length	1.5m



	Cat.	Qty 1+	Qty 2+	Qty 4+
1.5m	QC-3373	\$44.95	\$40.45	\$37.95

USB Mini Inspection Camera with 7m Flexible Cable

A water resistant inspection camera with a massive flexible 7m cable so it will remain rigid allowing you to probe into all sorts of areas. A magnet, hook, and 45 degree mirror attachment are included to enhance the cameras ability to retrieve impossible to get bolts, or other pieces of equipment. Just plug it into your laptop and view the camera live, record videos, and take snapshots for later use.

- Water resistance camera head and cable
- 4 white LEDs (brightness adjustable)
- Compatible with Windows XP, Vista, 7, 8, 10

SPECIFICATIONS	QC-3374
Camera head outer diameter	10mm
Resolution	640 x 480
Lens view angle	54°
Focal distance	6cm-infinite
Frame rate	Up to 30fps@640x480
Length	7m



	Cat.	Qty 1+	Qty 2+	Qty 4+
7m	QC-3374	\$74.95	\$67.45	\$63.45

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'.
Conditions apply - see page 528 for details.

INSPECTION CAMERAS WITH MONITORS

Inspection Camera with 2.4" LCD

With a camera diameter of only 9mm, detailed inspection of some very tight spots is possible. Its comfortable grip and forward facing controls make it easy to detect and diagnose the inaccessible. 9mm camera head for up-close visual inspections in tight spaces. Requires 4 x AA batteries.

- Forward facing controls
- Adjustable brightness LED illuminator
- Adjustable LCD brightness



SPECIFICATIONS	QC-8710
Sensor	CMOS
Display	2.4" colour LCD
Resolution	480 x 234 pixels
Reach	1m
Attachments	Mirror, hook & pick-up magnet



	Cat.	Qty 1+	Qty 2+	Qty 4+
Inspection Camera	QC-8710	\$149.00	\$133.95	\$118.95
Extension Shaft 2m	QC-8702	\$79.95	\$71.95	\$67.95

Inspection Camera with Record & Detachable Wireless Screen

With a 9mm diameter and four LEDs, the head of this inspection camera can capture video and pictures in confined and dark locations. The head and flexible boom being IP67 rated enables them both to be submerged in water during operation (however the base unit and LCD cannot get wet! Caution!). Included is a 2GB microSD card on which video and pictures can be recorded. These files can then be viewed on a TV with the included Video out cable or saved onto a PC via the USB cable included. The 3.5" LCD is detachable from the handle, which receives a wireless transmission from the camera. This enables more flexibility during operation, i.e. you can hold and manoeuvre the camera with one hand whilst keeping the LCD in full view in the other hand all the time. It makes operation easier.

- 2GB microSD card included (accepts up to 16GB)
- IP67 rated camera and flexible boom
- 4 white LEDs
- Three useful accessories: hook, mirror, magnet.
- Strong plastic carry case
- 4 x AA batteries required for camera handle
- USB cable included
- Video out cable included
- Power supply 5VDC 1A included



DIMENSIONS	QC-8712
Monitor	100 x 70 x 25mm
Camera Diameter	9mm
Camera handle	86 x 145 x 41mm
Flexible boom	1m
SPECIFICATIONS	QC-8712
Photo & Video resolution	640 x 480
Video memory usage approx.	27MB/min - With 2GB microSD card approx.
Photo memory usage approx.	75kB - With 2GB microSD card approx.
LCD	3.5"
Wireless transmission frequency	2.4GHz
Lithium-ion battery in LCD	3hour Charge, 2 hour usage.



	Cat.	Qty 1+	Qty 2+	Qty 4+
Inspection Camera	QC-8712	\$299.00	\$269.00	\$239.00
Extension Shaft 2m	QC-8702	\$79.95	\$71.95	\$67.95

LCD MODULES

LCD Panel 2 Line 16 Character Compact with Backlight & SIL Connections

This compact LCD module has 96 inbuilt ASCII characters as well as 92 special letters and 8 custom characters, which can be displayed on a 16 character by 2 line screen. It will hold the current input on the display using its own built in memory, making it easy to drive. Connections via single in line solder pads with an independent backlight.



SPECIFICATIONS	QP-5512
Type	2 line LCD
Characters	16 x 2 lines
Character size	4.89 x 2.78mm
Viewing angle - vertical	Sym 0 condition: CR>=2°, Min -10° Max 40°
Viewing angle - horizontal	Sym 0 condition: CR>=2°, Min -30° Max 30°
Supply voltage for logic	5VDC
Other mechanical data	Power supply current: 2mA, Duty: 1/16
Module dimensions	66(W) x 26(H) x 12(D)mm
Viewing display area	51(W) x 14.8(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
	QP-5512	\$19.95	\$17.95	\$13.95

Dot Matrix LCD Modules - Alphanumeric

Compact Liquid Crystal Diode module with ASCII (96 characters), Special Letters (92 characters) and Custom Letters (8 characters).

A two line screen displays up to 16 characters at a time and the module will hold the current display in its own inbuilt memory.



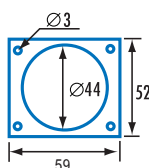
SPECIFICATIONS	QP-5515/QP-5516
Type	Alphanumeric, 2 line LCD
Characters	16 x 2 lines
Character size	4.89 x 2.78mm
Viewing angle - vertical	Sym 0 condition: CR>=2°, Min -10° Max 40°
Viewing angle - horizontal	Sym 0 condition: CR>=2°, Min -30° Max 30°
Supply voltage for logic	SYN: VDD - VSS Min 4.5V Typ 5V Max 5.5V
Other mechanical data	STN, yellow green, 1/16 duty, 6 o'clock
Module dimensions	85(W) x 30(H) x 13.2(D)mm
Viewing display area	65(W) x 16(H)mm

	Cat.	Qty 1+	Qty 10+	Qty 25+
Without Backlight	QP-5515	\$15.95	\$14.35	\$10.95
With Backlight	QP-5516	\$19.95	\$17.95	\$13.95

PANEL METERS - MU45

Panel Meters Style MU45 - Moving Coil Type

- Overall Dimensions: 59(W) x 52(H)mm.
- 44mm meter hole
- MU45
- Class 2.5



Cat.	Coil Resistance	Scale
QP-5010	200 Ω	0-1mA
QP-5012	3,000 Ω	0-50μA
QP-5013	0.05 Ω	0-1A
QP-5014	0.01 Ω	0-5A
QP-5015	0.005 Ω	0-10A
QP-5016	0.003 Ω	0-20A
QP-5020	20,000 Ω	0-20V
QP-5022	30,000 Ω	0-30V



QP-5013

QP-5014

QP-5016

	Cat.	Qty 1+	Qty 3+	Qty 6+
	Any of the above	\$17.95	\$15.95	\$14.35

PANEL METERS

3.5 Digit LCD Panel Meters

Common Specifications for QP-5570, QP-5580 & QP-5585

- Polarity: Automatic (-) for negative value
- Input: Analogue
- Zeroing: Automatic
- Operating temp: Standard 0 to 50°C
- Configuration: True differential input & reference
- Decimal point: User selectable
- Full scale range: 200mV
- Impedance: 10MΩ
- Conversion rate: 2.5 per second

LCD PANEL METER

- Attractive modern bezel
- Snap retaining into panel
- Shallow depth
- 0.1" launcher connections

SPECIFICATIONS QP-5570

Type of display	LCD
Digits	3 1/2 digits (1999)
Power	5V powered
Over range	Display flashes "1"
Accuracy	±(0.1%rdg.+1dgt.)
Connection	13 pins
Dimensions	62(W) x 25(H) x 15(D)mm
Panel cutout	60.5(W) x 24(H)mm



LED PANEL METER

- Surface mount construction for reliability
- 0.1" launcher connections
- Brightness matched superbright LEDs
- Attractive bezel with mounting clips
- 5V powered, TTL compatible common ground

SPECIFICATIONS QP-5580

Type of display	LED, red super bright
Digits	3 1/2 digits (1999)
Power	5V powered, common ground
Over range	Display blinks
Accuracy	±(0.1%rdg.+2dgt.)
Connection	10 pins
Dimensions	68.5(W) x 33(H) x 16(D)mm
Panel cutout	64(W) x 28(H)mm

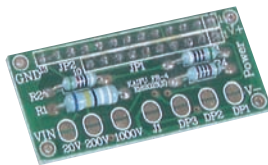


	Cat.	Qty 1+	Qty 5+	Qty 10+
LCD Panel Meter	QP-5570	\$27.95	\$24.95	\$22.35
LED Panel Meter	QP-5580	\$29.95	\$26.95	\$23.95

Add On Board For QP-5570/80

This add on board makes it easy to set the range and decimal point on our QP-5570 or 80 panel meters. The ranges can be permanently set with a solder bridge or wired to a switch for selectable ranges.

- No 200mV range on QP-5580
- Cannot be used in applications where voltage to be measured also powers DPM.



	Cat.	Qty 1+	Qty 5+	Qty 10+
	QP-5575	\$9.95	\$8.75	\$7.75

LED Voltmeter 5-30VDC with Bar Graph

A quick and simple way to monitor the battery voltage in a vehicle, this voltmeter simultaneously shows the voltage numerically and on a bar graph. Simply wire up to a DC power source between 5-30VDC, and the blue LED voltmeter displays the voltage. The colour coded LED bar graph shows the voltage level on a scale from 11.3 to 13.2 volts, optimal for vehicle battery condition. Supplied with a panel mount and a surface mount "hood". Connection is via 6.3mm spade terminals.

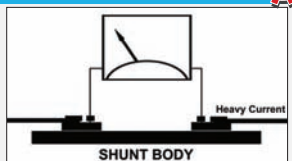
- Voltmeter: 36(Dia) x 26(D)mm
- Panel mount: 60(W) x 42(H)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
Voltmeter	QP-5589	\$39.95	\$35.95	\$31.95

HOW TO INSTALL A SHUNT

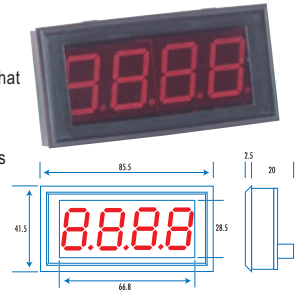
- Voltmeter is on millivolt scale
 - Voltmeter connections to shunt are on each side of shunt
 - If current is DC observe polarity. If AC amps connect any way around
 - Specs of shunt generally stamped on the shunt itself ie. 50mV/50A (voltage drop across shunt) equates to 5, 10, 20A max current, etc. i.e. A 25mV reading on the millivolt meter would equate to 25A current on a 50A/50mV shunt.
- You can read the current straight off the millivolt scale on the meter.



TECH TALK

3.5 Digit Jumbo LED Panel Meter

This is not just a digital display, but a fully functional high impedance digital panel meter that only requires power to operate. It will measure voltages from 200mV to 500VDC (jumper selectable) and has a maximum count of 1999. The module is suitable for a host of applications and can be used as a voltmeter or adapted for use as a current meter, thermometer etc. The decimal point location can be selected with a jumper and the module uses an easy "plug-in" fixing method. The meter shares a common ground with the voltage being measured.



SPECIFICATIONS QP-5585

Type of display	LED
Digits	3.5 Digits (1999) 20.3mm figure height
Power	5VDC, common ground, 60mA typical
Over range	"1" shown on display
Accuracy	±0.5%
Dimensions	85(W) x 42(H) x 25(D)mm
Panel cutout size	84(W) x 41(H)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
LED Panel Meter	QP-5585	\$34.95	\$31.45	\$27.90

Self-Powered LED Panel Meters

Simple and easy to install self-powered meters with voltage or current display. The voltmeter has a simple 2-wire connection, and the current meter has 4-wire connection with an included current shunt. Auto zero calibration and easy to read red LED display. Give your next project a truly professional look. Perfect for automotive, caravan or 4WD use.

- Cutout size 42 x 23mm
- Easy installation
- Reverse Polarity protection
- Auto zero calibration
- Self powered



Two models available:

LED VOLTMETER 8 - 30V DC CAT QP-5586

LED AMMETER 0 - 50A DC CAT QP-5588

	QP-5586	QP-5588
Power requirements	8 - 30VDC	8 - 30VDC
Measurement range	8 - 50VDC	0 - 50ADC
Maximum display count	999	1999
Sample frequency	400mS	400mS

Current shunt included

Note! When connecting the ammeter QP-5588 it is essential that the wiring instructions provided with the product are followed, or the meter may be destroyed.



	Cat.	Qty 1+	Qty 5+	Qty 10+
Voltmeter	QP-5586	\$24.95	\$22.35	\$19.70
Ammeter	QP-5588	\$39.95	\$35.90	\$31.90

HEAVY DUTY CURRENT SHUNTS

Placed in series with a high power circuit, these shunt bars allow you to measure high current draw without needing a high current ammeter. Heavy duty brass construction and hand calibrated, they include large terminals for connection of the main circuit cables and smaller terminals for connection to a meter. Suitable for use with a standard multimeter or panel meter you simply measure the millivolts across the shunt to display the current draw of the circuit. Models are compatible with many readily available power meters such as our MS-6172 Digital DC Power Meter.

Cat	Max Current	Voltage at Max Current	Shunt Resistance	Accuracy
QP-5410	5A	50mV	10milliOhm	0.5%
QP-5412	50A	50mV	1milliOhm	0.5%
QP-5415	100A	50mV	0.5mOhm	0.5%
QP-5417	200A	50mV	0.25mOhm	0.5%



QP-5412

QP-5415

Diagram on web

NOTE: Care must be taken when using current shunts to measure DC circuits with common powered meters. Incorrect connection can cause a short circuit between the measuring terminal and the display power resulting in damage to the voltmeter. To avoid this issue the current shunt should be connected in series between the load and the power supply negative. Please see our website for more information.

MANUFACTURERS: WE HAVE A SHUNT SUPPLIER WHO IS IMPOSSIBLE TO BEAT FOR PRICES AND QUALITY. WE CAN SUPPLY CUSTOM SHUNTS IN QUANTITIES AS LITTLE AS 100 PIECES. CONTACT OUR WHOLESALE SUPPLIER FOR DETAILS

▲ Max Current	Voltage at max current	Cat.	Qty 1+	Qty 5+	Qty 10+
5A	50mV	QP-5410	\$12.95	\$11.35	\$10.35
50A	50mV	QP-5412	\$12.95	\$11.35	\$10.35
100A	50mV	QP-5415	\$19.95	\$17.70	\$15.70
200A	50mV	QP-5417	\$19.95	\$17.70	\$15.70

CRIMPING TOOLS - QUICK CONNECTORS

5 Way Crimping Tool - Auto Type

This crimping tool will do the following:

- Cut wire
- Crimp insulated & non insulated terminals
- Strip wire with diameters 0.75, 1.0, 1.5, 2.5, 4.0 & 6.0mm
- Cut bolts with diameter M2.6, M3.0, M3.5, M4.0 & M5.0



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1828	\$8.95	\$7.95	\$6.95

Crimping Tool for Non-Insulated Lugs

A quality tool at a budget price. Solid box joint and crimping dies, comfortable handles and spring-loading make this an easy crimper to use all day. It handles non-insulated lugs from 14-18 AWG and 22-26 AWG and also includes a built-in wire cutter.



	Cat.	Qty 1+	Qty 3+	Qty 6+
185mm long	TH-1834	\$14.95	\$13.45	\$11.95

Heavy Duty Ratchet Crimp Tool for Insulated Terminals

Manufactured from quality carbon steel and fitted with hardened and tempered jaws. Crimping pressure is precisely adjustable and a ratchet release lever is fitted to enhance safety. Has easy identification for crimping Red, Blue, and Yellow Terminals. Suitable for crimping insulated terminals from 0.5mm to 6.0mm in size.



	Cat.	Qty 1+	Qty 3+	Qty 6+
220mm	TH-1829	\$39.95	\$35.90	\$31.90

CRIMPING TOOLS - COAX

Compression Crimping Tool - Universal

A precision crimp tool ensuring correct crimping pressure is applied for reliable, trouble-free compression of BNC, RCA, Min-F and F-type coaxial connectors. Adjustable compression depth that provides desired crimping length.

- Works with RG59 and RG6 coaxial cables.

Note: This tool is not suitable for our PP-0708 Foxtel Approved F59 Plug



	Cat.	Qty 1+	Qty 3+	Qty 6+
146mm long	TH-1800	\$24.95	\$22.45	\$19.95

Compression Crimping Tool for F-Type Plugs

A compact compression tool designed for our Foxtel approved F-type plug (PP-0708). A channel accurately positions the plug, and a spring-loaded clamp holds the cable in position. These features and leverage action of the handle ensure easy F-type compression crimps can be performed quickly and easily time after time.



	Cat.	Qty 1+	Qty 3+	Qty 6+
143mm long	TH-1803	\$29.95	\$26.95	\$23.95

Compression Crimp Tool for RCA / BNC / PAL / F-Type Connectors

Compression connections are durable and fast with the right tools. This crimp tool provides interchangeable dies to crimp RCA, BNC, PAL and F-Type connectors with ease. It's a durable tool that will provide a quality compression connection every time. Metal construction with comfortable grip.

- Dimensions: 152(D) x 19(W) x 53(H)mm (Closed)



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1807	\$24.95	\$22.45	\$19.95

Heavy Duty Coax Crimping Tool

This tool is specifically designed for crimping F, N, BNC, TNC, UHF, ST, SC & SMA connectors onto coax cable for TV and communications applications. It also has adjustable crimp force and 3 hex dies: 2.54mm, 9.12mm & 10.3mm.

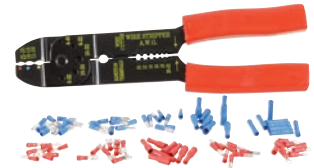


	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1832	\$29.95	\$26.95	\$23.95

Automotive Crimp Tool with Connectors

Unlike other automotive crimp pliers, this excellent tool comes with 80 of the most popular automotive connectors and NOT a bunch of junk you will never use. The tool will cut & strip wire, crimp connectors and also cut a range of metric bolts. Every car enthusiast should have one of these.

- Included connectors:
- 8 each of male & female blue bullets
 - 8 each of male & female red bullets
 - 8 each of male & female blue spades
 - 8 each of male & female red spades
 - 8 x red eye connectors
 - 8 x blue butt joiners



See page 151 for our full range of terminals

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1848	\$14.95	\$13.45	\$11.95

Ratchet Crimping Tool for Non-Insulated Lugs

Very high quality with comfortable grip and ratchet mechanism to relieve strain on your hands. Ideal for anyone doing frequent or high volume crimping. The ratchet mechanism holds the crimper closed until complete, with a manual release when needed. The extra-long handle provides exceptional leverage, while the grips provide comfort for your hands. Suits (16AWG to 6AWG) 1.25 to 16mm non-insulated terminals. Ideal for crimping Anderson plugs up to 50A.

- Dimensions: 280(H) x 55(W) x 18(D)mm (Closed)



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1847	\$34.95	\$30.95	\$27.95

See page 141 for F type crimp plugs

Hex Ratchet Crimping Tool

Heavy duty ratchet tool designed for crimping F, N, BNC, TNC, UHF, ST, SC & SMA connectors onto RG6, RG58 or RG59 coax cable. It features adjustable crimping force and ratchet mechanism for complete repeatability. Four hex crimping dies: 1.72mm, 5.49mm, 8.23mm and 9.14mm.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1833	\$39.95	\$35.90	\$31.90

Ratchet Crimping Tool for F-Type Connectors

A strong, heavy duty tool for crimping F-Type CATV connectors onto RG6 or RG59 coax cable. Ideal for cable TV or RF distributions system installers. The tool features a secure ratchet mechanism for accurate and reliable crimps.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1831	\$39.95	\$35.90	\$31.90

Ratchet Crimping Tool for BNC/TNC Connectors

A heavy duty tool for crimping BNC/TNC connectors onto RG58/59/62 coax cable. The tool features a secure ratchet mechanism for accurate and reliable crimps.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1846	\$39.95	\$35.90	\$31.90

Heavy Duty Terminal Crimper

Commonly used for crimping lug/eye terminals onto heavy gauge power cables. The lever arm action makes for a good solid hex crimp on the terminal. Features a built in rotating die which can be rotated to suit terminals for 6/10/16/25/35/50mm² cable (10AWG-1/0AWG).

- Suits our PT-4934 to PT-4939 range of eye terminals.
- 450mm long.

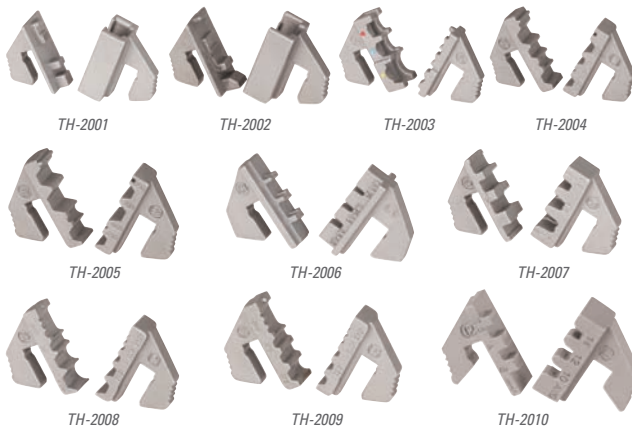


	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1849	\$49.95	\$44.90	\$39.90

CRIMPING TOOLS (CONTINUED)**Heavy Duty Crimp Tool with Quick Interchangeable Dies**

This heavy duty, ergonomic crimper allows you to quickly interchangeable the dies by hand, without the need for a screwdriver! Crimping is made easy with its ratchet mechanism designed for maximum power or quick release. Its ratchet release function allows for easy adjustment prior to completing the crimp, in case of incorrectly placed terminal. This crimper uses interchangeable dies (available separately) that can be quickly and easily changed. Buy only the ones you require for each job! Dies available for telephone and network plugs, insulated terminals, BNC/TNC connectors to suit RG58/RG59/RG62 coax, and even F-type CATV connectors to suit RG59/RG6 coax. An invaluable tool for the workshop or technician's tool-kit.

See CAT5e & CAT6 cable on page 160.

**DIES TO SUIT**

	Cat.	Qty 1+	Qty 3+	Qty 6+
Heavy Duty Crimp Tool	TH-2000	\$39.95	\$35.95	\$31.95
6P6C RJ11/12	TH-2001	\$22.95	\$20.45	\$17.95
8P8C RJ45	TH-2002	\$22.95	\$20.45	\$17.95
Insulated Terminals	TH-2003	\$22.95	\$20.45	\$17.95
BNC/TNC RG58/59/62	TH-2004	\$22.95	\$20.45	\$17.95
F Connectors CATV RG6/59	TH-2005	\$22.95	\$20.45	\$17.95
Non-Insulated Terminals 26-18AWG	TH-2006	\$22.95	\$20.45	\$17.95
Non-Insulated Terminals 20-10AWG	TH-2007	\$22.95	\$20.45	\$17.95
SMA/Fibre Optic 1.09-6.48mm	TH-2008	\$22.95	\$20.45	\$17.95
SMA/Fibre Optic 1.07-4.52mm	TH-2009	\$22.95	\$20.45	\$17.95
PV Connector	TH-2010	\$29.95	\$26.95	\$23.95

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'.
Conditions apply - see page 528 for details.

F CONNECTOR TOOLS**F Connector Seating Tool**

This 3 way tool assists in the connection of F type connectors. Includes flaring tool for RG6 and RG59 cable and pre-threading tool. Measures: 60mm diameter



	Cat.	Qty 1+	Qty 3+	Qty 6+
Suits RG6/RG59	TH-1883	\$11.95	\$10.70	\$9.50

F Connector Spanner

Handy tool for tightening and loosening F-type connectors.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1811	\$2.95	\$2.65	\$2.35

CRIMPING & TERMINATION TOOLS**CRIMPING TOOLS - MODULAR****6P/8P Modular Crimp Tool**

This tool will crimp the following plugs: 6P2C, 6P4C - RJ12, 6P6C - RJ12, 8P - RJ45.

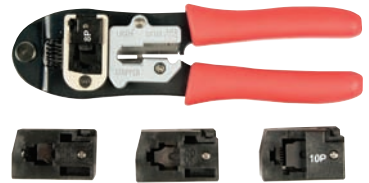
- It also cuts and strips the cable.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1935	\$19.95	\$17.95	\$15.95

4P/6P/8P/10P Modular Crimp Tool

This great tool will cut, strip and crimp flat telephone cable, or Cat5e type cable also. Constructed from high quality carbon steel, it features interchangeable dies and ergonomic design. It also has a brace to lock them closed.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1936	\$44.95	\$40.45	\$35.95

See page 391 for Modular Crimp Tool with Network PoE Tester

**CAT5 TOOLS****Cat5 Punch-Down Tool / Stripper****LOW-COST**

This versatile little tool will strip wire up to 5 to 6.2mm diameter, and doubles as a punch-down tool for 110/88-type terminals, with blade. Made from poly-resin plastic, with steel cutters this lightweight tool could easily fit in the pocket or tool kit.



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1738	\$8.95	\$7.95	\$6.95

Cat5 Punch-Down Tool - Adjustable

It has a turnable body, adjustable impact pressure and a storage compartment within the handle for holding a spare blade. Frame made of polyacetal resin with fibre glass orange handle. Supplied with 88 blade. Spare blades see TH-1743 below.

SPECIFICATIONS	TH-1740
Impact pressure	Low: 10 +/- 2 kg (standard wire)
High	15 +/- 2kg (larger wire)
Length of tool	152mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1740	\$22.95	\$20.45	\$17.95

Blades for Cat5 Punch Tools

Suits the punch tool - TH-1740. Made from hardened SNCM-21, these blades are both changeable and reversible, and can be changed by hand, no screwdriver necessary. Blade retaining pressure within 4-6 kg. One end of each blade has a cutter for that extra-neat termination, the other end is plain for those "linked" blocks.



	Cat.	Qty 1+	Qty 3+	Qty 6+
110 Krone	TH-1743	\$17.95	\$15.95	\$14.35

F-Type / BNC Insertion & Extraction Tool

If you've ever tried to unscrew an F-Type or BNC connector that's been in-place for a while, you know it can be really tough. Sure a spanner might help, but access is usually an issue too. This tool is specifically designed to allow you to insert them with firm torque for a quality connection, and a solid grip to unscrew the most stubborn plug too. Suits F-Type and BNC connectors.



SPECIFICATIONS	TD-2000
Thread	3/8-32
Socket	7/16 Hex
Weight	95g
Dimensions	255(L) x 25(Dia.)mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2000	\$14.95	\$13.45	\$11.95

NEW 2017

1 YEAR WARRANTY

CABLE STRIPPERS & CUTTERS

Budget Coax Cable Stripper

Strips insulation from any coax cable and ideal if you only need to strip coax occasionally. Simply insert the cable, twist and turn, then use the other end of the tool to remove the inner insulation.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1815	\$4.95	\$4.45	\$3.90

Pocket Wire Stripper

Strips anything from 2G to RG6 coax. Easy to use and small enough to take anywhere on the job.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
120mm long	TH-1817	\$14.95	\$13.35	\$11.70

Wire Stripper

Great way to strip all sorts of cable without damaging the conductors. Automatically adjusts to insulation diameter.

- One hand operation
- Spring return

Features a Finger Guard



Colour may vary to one shown

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1824	\$16.95	\$14.95	\$13.35

Rotary Coax Stripper

This handy stripper will strip the outside jacket and inner conductor in one operation.

- Suitable for RG58/59/62/6 and 3C2V 75 ohm cable
- Simply rotate the stripper clockwise around the cable 3 to 6 times. A quality stripper suited to installers



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1820	\$19.95	\$17.95	\$15.95

Stainless Steel Wire Stripper / Cutter / Pliers

A high quality precision wire stripper and cutter that will strip wire sizes from 0.6mm to 2.6mm.



It is spring-loaded with locking jaws, and has soft rubber handles for added comfort.

- Strips stranded wire from 12-24 AWG and solid wire from 10-22 AWG
- Includes wire cutter, pliers and loop hole to bend hooks in wires
- Will also cut steel wires up to 3.0mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
164mm long	TH-1841	\$15.95	\$14.35	\$12.70

Heavy Duty Wire Stripper / Cutter / Crimper with Wire Guide

Designed for easy wire stripping. The alloy steel can strip all types of cable from AWG 10-24 gauge (0.13-6.0mm), and the wire guide ensures the correct length is stripped time and time again. It incorporates a precision cutting blade for easy wire cutting. It also features quality crimping jaws. Capable of removing outer insulation from main T & E cable



- Insulated terminals (1.5 - 6mm)
- Non-insulated terminals (1.5 - 6mm)
- For auto ignition terminals (7-8mm)
- This is the best all round wire tool we've seen for a long time
- Spring return

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
204mm long	TH-1827	\$29.95	\$26.95	\$23.95

SHEARS & NIBBLING TOOL

180mm (7") High Quality Stainless Steel Electrical Shears

Slice through soft electrical cable with ease. These precision spring loaded stainless steel electrical shears will cut soft wire up to 22sqmm and make light work of cable ties, heatshrink, light hook-up wire and cable braid etc. The shears feature insulated handles and a convenient, thumb operated lock to keep them closed when not in use.

- Ideal for cutting ribbon cable



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
180mm long	TH-1757	\$9.95	\$8.95	\$7.95

140mm (5.5") High Quality Electrical Shears

These shears offer impressive cutting ability with finely honed and serrated blades. Great for cutting insulation, heatshrink, spaghetti and light duty hook-up wire.

- Shears feature insulated handles



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
140mm long	TH-1758	\$6.95	\$6.25	\$5.50

165mm (6.5") Stainless Steel Cable Shears

This set of cutters has a cutting capability of up to 10mm copper cable. It is constructed from stainless steel and has a hardened long-life cutting edge. For safety and ease of storage, it can be locked in the closed position.

- Stainless Steel
- Lightweight
- Lockable.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
165mm long	TH-1898	\$19.95	\$17.95	\$15.95

300mm (12") Copper Cable Shears

These super heavy duty cutters feature a precision cutting head forged from carbon steel attached to drop forged steel handles for extra leverage. Designed to cut copper cable up to 35mm² you can slice through just about any cable up to 2 gauge. The handles are coated to prevent corrosion and have rubber grips for operator comfort.

- Dimensions: 310(L) x 90(W) x 40(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
310mm long	TH-1900	\$24.95	\$22.45	\$19.95

Multi Function Cutter/Stripper Tool

This ingenious 2-in-1 tool is the ultimate in space economy for your toolbox. On the one hand, it is a 6 position wire stripper suitable for 10 AWG to 20AWG insulated wire with a micro-grip jaw at the end. Then, just flip the handles around to turn it into a side cutter and crimp!



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1843	\$24.95	\$22.45	\$19.95

Nibbling Tool

Will cut any shape out of aluminium, plastic, copper and other unhardened metals up to 18 gauge. Tool is designed to fit into the palm of your hand for easy use, simply drill a 1/4" hole to start.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1768	\$14.95	\$13.35	\$11.70

OPEN A STORE ACCOUNT WITH US

Jaycar accepts account applications from all established companies who can exhibit good trade references.

AUTOMATIC ACCOUNT

For Schools, Government Departments, Public Companies, Radio & TV Stations

SCREWDRIVERS

High Quality Jeweller's Screwdrivers

Each screwdriver has a rotating top, larger handle and a strong chrome vanadium tip providing a comfortable finger/palm rest and an easily turned body. These look very similar to those expensive German ones.



▲ Type	Cat.	Qty 1+	Qty 3+	Qty 6+
1.0mm Slot Tip	TD-2060	\$3.50	\$3.15	\$2.75
1.5mm Slot Tip	TD-2061	\$3.50	\$3.15	\$2.75
2.0mm Slot Tip	TD-2062	\$3.50	\$3.15	\$2.75
#000 Phillips	TD-2064	\$3.50	\$3.15	\$2.75
#00 Phillips	TD-2065	\$3.50	\$3.15	\$2.75

Jeweller's Screwdriver Set

All metal precision screwdrivers for watchmakers, jewellers, modelmaking or just fixing the sunnies. Set of six.

- Slotted: 1.0, 1.2 & 1.6mm
- Phillips: #00, #0 & #1



See our Watch Repair Tools on page 222

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2023	\$9.95	\$8.75	\$7.75

6 Piece Insulated Electronic Screwdriver Set

These screwdrivers have ergonomic handles with excellent non-slip grips. The shafts are fully insulated and rated for 1000V. The set contains all the smaller sizes you need for working on electronic gear. Storage case included.

- Slotted: 2mm, 2.5mm, 3mm
- Phillips: #00, #0, #1
- 1000V rated
- TÜV and GS approved
- Case: 192(L) x 130(W) x 26(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2026	\$19.95	\$17.95	\$15.95

ELECTRICAL SCREWDRIVERS

This range of trade quality insulated screwdrivers is one of the most comfortable screwdrivers we have ever used. The ergonomic handles have a soft rubber coating for a secure, comfortable grip that you can use for hours on end. All are TUV and GS approved and rated up to 1kV.

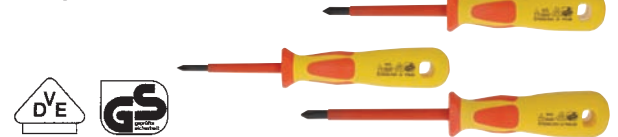
- A size for any application

Slotted



▲ Wmm	Lmm	Cat.	Qty 1+	Qty 3+	Qty 6+
2.5	75	TD-2230	\$5.50	\$4.90	\$4.30
3.0	100	TD-2231	\$5.95	\$5.25	\$4.75
5.5	125	TD-2232	\$6.95	\$6.25	\$5.55
6.5	150	TD-2233	\$7.95	\$7.10	\$6.25
8.0	175	TD-2234	\$9.95	\$8.75	\$7.75

Phillips



▲ Size	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
0	60mm	TD-2235	\$5.95	\$5.25	\$4.75
1	80mm	TD-2236	\$6.95	\$6.25	\$5.55
2	100mm	TD-2237	\$7.95	\$7.10	\$6.25

1,000V 7 Piece Screwdriver Set

A quality set of 7 screwdrivers with storage box. GS & VDE tested & approved to 1000V.

With red handles and insulation right to the tip.

- DIN EN 60900.

Flat:

1.2x6.5x150, 1.0x5.5x125, 0.8x4x100, 0.4x2.5x75

Phillips:

#2x100, #1x80, #0x75



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2022	\$34.95	\$31.45	\$27.95

RELATED PRODUCTS

Tool Magnetiser / Demagnetiser

Magnetised screwdrivers make life easier. This tool has two slots, one which will magnetise and the other to demagnetise.

The holes are large enough for the largest of screwdrivers.

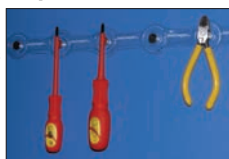
- 50 x 50 x 30mm.



▲ Cat.	Qty 1+	Qty 3+	Qty 6+
TD-2042	\$6.95	\$6.25	\$5.50

Handy Magnet Strip

You'll find dozens of uses for this innovative magnetic storage system. It can be attached to walls, tables or other surfaces to hold tools, brushes, scissors, key rings or any other object that contains iron.



▲ Cat.	Qty 1+	Qty 6+	Qty 20+
LM-1624	\$19.95	\$17.95	\$15.95

Magnetic Project Work Mat

Holds small metal screws, nuts, and bolts so they don't roll off the desk as you work. No more hunting around for that small screw that fell on the floor as you work.

- Dimensions: 254(L) x 203(W)mm



▲ Cat.	Qty 1+	Qty 6+	Qty 20+
TH-1867	\$12.95	\$11.35	\$10.35

TEST SCREWDRIVERS

"Smart" Test Screwdriver

- Capacitor check
- Diode check
- Transistor check
- Globe/relay/fuse/speaker/resistor check
- Locating broken wire
- Picks up static radiation of TV or monitor
- Instantaneously checks AC power
- Earth disconnection check
- AC voltages



- DC voltage test up to 250V DC
- Continuity check
- Polarity check 1.5V to 36V DC
- Supplied with comprehensive instructions

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2055	\$11.95	\$10.70	\$9.50

Low Voltage Circuit Tester 6, 12, 24 Volts

Looks like a neon test screwdriver but instead of a blade on the end this tester has a probe and a 28" lead which clips to ground.

- Suitable for 6/12/24 volts for use on cars, trucks, boats, etc.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2049	\$3.95	\$3.45	\$3.15

TOOL KITS

10 Piece Reinforced Plastic Tool Set

A handy toolset that won't rust, so it's great for the toolbox, glovebox or tacklebox. Other benefits of these reinforced plastic tools include working on live (low voltage) circuits without chance of shorting if you slip, and preventing damage to the fasteners (screws & nuts) on your projects. You could even pack them in your cabin baggage if you travel. Supplied as a once piece mould - simply snap out the tools you need to use when you need them. See website for contents.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2116	\$4.95	\$4.45	\$4.00

35 Piece Electronic Tool Kit with Vinyl Case

A multi-purpose precision screwdriver tool set with a durable storage case with zipper. The tool set consist of 30 bits, cutters, pliers and a flexible shaft adaptor for those tricky to reach screws. Ideal for electronic service tradesmen and hobbyists.

Kit includes:

- 30 pcs assorted bits:
 - Slotted: SL1.0, SL1.5, SL2.0, SL2.5, SL3.0, SL3.5, SL4.0mm
 - Phillips: PH000, PH00, PH0, PH1
 - Pozi: P20, P21
 - Torx: T4, T5, T6, T7, T8, T9, T10, T15, T20
 - Hex: H0.7, H0.9, H1.3, H1.5, H2.0, H2.5, H3.0, H4.0mm
- Needle nose pliers
- Diagonal cutters
- Flexible shaft
- Stainless tweezers
- Easy grip screwdriver handle
- Durable zippered storage case
- Case dimensions: 180(L) x 125(W) x 30(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2117	\$39.95	\$35.90	\$31.90

SMARTPHONES & GAMING TOOL KITS

LCD Screen Opening Tool

If you're trying to open modern smart devices such as a Tablet or Smartphone, the right tool is essential. This pair of suction-pliers provide pressure to pop-open the case, allowing you to get access to the internal electronics and screen. Suitable for screen removal on many smart devices.

- Dimensions: 160mm long



Smartphone not included

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2121	\$14.95	\$13.45	\$11.95

Tool Set Repair Kit for iPhone®

The tools you need to safely open up your iPhone® or iPad® and put it back together again. Replace cracked screens, dead batteries, scratched back panels and more.

- Suits iPhone® 3G, 3GS, 4, 4s, 5.

Contents

- 3 x iPhone® mounting panels with screw hole marks for iPhone® 4, iPhone® 4s, iPhone® 5
- 1 x Scraping plastic film
- 1 x Special tool for capacitive screens
- 1 x 0.8 Pentalobe screwdriver (for iPhone® 4 iPhone® 4s, iPhone® 5)
- 1 x 1.2 Pentalobe screwdriver (for iPad®)
- 1 x 1.2 Philips screwdriver (for iPhone® 3, and parts of iPhone® 4)
- 2 x Guitar pick opening tool
- 2 x Plastic prying tools



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2115	\$16.95	\$14.95	\$13.35

30 Piece Tool Kit with Case

Minor DIY repairs are a breeze with this 30 piece tool kit and every DIYer should have one of these in easy reach. The tools are held securely in a zip-up case.

Contents:

- Side cutters
- Snap-blade knife
- Precision screwdriver with bits
- Driver handle with: PH1, PH2, PZ1, PZ2, 5, 6mm slotted, T10, T15, T20
- 5, 6, 7, 8, 9, 10mm sockets
- Folding Allen keys 1.5, 2, 3, 4, 5, 6mm
- Case measures: 210(L) x 160(W) x 48(H)mm
- Long nose pliers
- Tape measure



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2166	\$29.95	\$26.95	\$23.95

8 Piece 1000V VDE Set

These rugged, quality hand tools are VDE rated to 1000V and GS approved. The set includes two Phillips and two slotted screwdrivers, long nose pliers and side cutters. They all feature quality rubber-moulded insulation so they're comfortable in-hand. For safety, the screwdrivers are insulated right to the tip, while the side cutters and pliers are flanged to keep them firmly in your hands. Also included is a mains test-lamp, and a small roll of PVC electrical tape. They're made with quality steel, so they'll be reliable job after job.

- VDE approved to 1000V
- Insulated right to the tip
- Includes low voltage circuit tester



Tools Include:

- 170mm Side Cutters
- 170mm Long Nose Pliers
- 140mm 250V Mains Tester
- #1 x 80mm Phillips Screwdriver (170mm Overall Length)
- #2 x 105mm Phillips Screwdriver (205mm Overall Length)
- 3.5mm x 105mm Slotted Screwdriver (195mm Overall Length)
- 5.0mm x 125mm Slotted Screwdriver (225mm Overall Length)

NEW
2017

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2031	\$59.95	\$53.95	\$47.95

27 Piece Smartphone Repair Kit

A kit containing all the necessary tools you need to fix your Smartphone. This 27 piece Smartphone repair tool kit comes in a compact storage case with a hang tab to make sure that you don't misplace the kit after use. It is not limited to Smartphones either - it is designed to repair iMac®, Mac® air, iPhone®, Samsung®, HTC®, Nokia®, Sony® as well as many brands of mobile phone.

Kit includes:

- Aluminium alloy handle
- 18pcs for 4mm bits: PH000, PH00, PH0, PH1, SL1.5, SL2.0, SL2.5
- Torx: T4, T5, T6, T8, T10
- Hex: 1.5, HEX2.0
- Pentalobe 0.8, 1.2, 1.5
- Tri-Lobe #0
- Plastic prying tools x 2
- Guitar pick opening tool
- Tweezers x2
- Soldering scraper tool
- Nylon ESD-safe probe with pointed and blade ends
- Dimensions: 190(L) x 130(W) x 26(D)mm
- Extension bar
- Suction vacuum opener
- SIM card ejector pin tool



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2118	\$29.95	\$26.95	\$23.95

Gaming Console Tool Kit

If you have ever attempted any repair or improvement on your gaming console, you know that the right tools can make the difference between a good experience and a bad one. Everything you need to get into your console and accessories. It includes tools for pretty much every console and handheld on the market today - Wii®, X-Box®, Playstation® etc. Carry case included.

Contents:

- PH000, PH00, PH0, PH1
- Slotted 2, 3, 4mm
- T4, T5, T6, T8, T10, T15, T20
- TA2, TA2.3
- TRI00, TRI0, TRI1
- Nintendo® & X-Box® security bits
- X-Box® opening tool
- Stainless tweezers
- Ratchet handle and adaptor



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2109	\$29.95	\$26.95	\$23.95

SIDE CUTTERS & LONG NOSE PLIERS

**127mm - Precision Angled Side Cutters**

Precision side cutters that are ideal for fine PCB work. They will easily cut leads flush with the board's surface. The cutters are made from quality tool steel and have soft padded handles that are spring loaded for comfortable long term use.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
127mm	TH-1897	\$12.95	\$11.65	\$10.35

**115mm - Stainless Steel Side Cutters**

High quality small side cutters that have thick (2mm) blades and comfort soft plastic handles which are spring loaded.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
115mm	TH-1890	\$13.95	\$12.35	\$10.95

**110mm - Fujiya Side Cutters**

Beautifully engineered side cutters for the discerning tradesman. These cutters feature high quality tool steel construction and are perfect for cutting super fine wire as well as general workshop use. They aren't just good to look at, they are tough as well and can cut steel wire up to 1.6mm without harm. The insulated handles are spring loaded for effortless use.

- Blade hardness: Rockwell C Scale 57~61
- Soft grip handle

Japanese Made

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
110mm	TH-2332	\$29.95	\$27.95	\$23.70

**135mm - ESD Safe Side Cutters**

Specifically for ESD work. High quality Japanese designed, Italian manufactured cutters especially for static-sensitive applications.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
135mm	TH-1922	\$32.95	\$29.45	\$26.50

**150mm - Carbon Steel Precision Side Cutters**

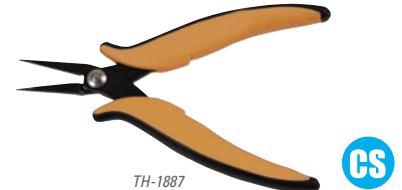
These cutters are made from the same high carbon steel as our TH-1885 long nose pliers and are designed for sharp cutting in precision wiring. They have insulated soft-touch handles and a coil return spring for fatigue free use.

ENGINEER®

Japanese Made

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm	TH-1891	\$39.95	\$35.90	\$31.90

**150mm - Precision Long Nose Pliers**

Precision, slim line long nose pliers that are ideal for working in confined areas. They have serrated jaws so you can get a firm grip on the item you're holding. The pliers are made from quality tool steel and have soft padded handles that are spring loaded for comfortable long term use.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm	TH-1887	\$11.95	\$10.70	\$9.50

**145mm - Stainless Steel Long Nose Pliers**

The partner to our TH-1890 stainless steel cutters. These have half round smooth gripping jaws perfect for adjusting and bending components, picking up that dropped nut, etc. Comfortable soft plastic handles which are spring loaded.

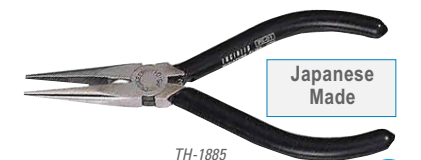
▲	Cat.	Qty 1+	Qty 3+	Qty 6+
145mm	TH-1893	\$13.95	\$12.35	\$10.95

**110mm - Fujiya Precision Long Nose Pliers**

These are the perfect companion for our TH-2332 precision side cutters and are made to the same exacting specifications. The insulated handles are spring loaded for effortless use.

- Blade hardness: Rockwell C Scale 53~57
- Soft grip handle

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
110mm	TH-2334	\$29.95	\$27.95	\$23.70

**125mm - Carbon Steel Precision Long Nose Pliers**

These quality pliers are made in Japan from the same high carbon steel that is used to make professional chef's knives. The pliers feature serrated jaws and a box joint to provide a precise action and strong grip. The coil spring ensures smooth, fatigue-free use. Insulated soft touch handles.

ENGINEER®

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
125mm	TH-1885	\$34.95	\$31.45	\$27.90

To avoid confusion we have put a small logo "SS" nominating which tool is made out of "stainless". "CS" means carbon steel.

CUTTERS & PLIERS SET

Stainless Cutter / Pliers Set

Set of five 115mm cutters and pliers for electronics, hobbies, beading or other crafts. Stainless steel with soft ergonomic grips.

Contents:

- Flush cutters
- Long nose pliers
- Flat nose pliers
- Bent nose pliers
- Round nose pliers

SS



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1812	\$29.95	\$27.95	\$23.70

WHEN STAINLESS STEEL IS NOT THE BEST!**TECH TALK**

We are big fans of stainless steel. We love it in tools, fasteners & many building products. It is not, however, always the best material. Top chefs will tell you, for example that the best knives are not stainless. They are made out of carbon steel.

Why? Carbon steel is far harder & tougher than stainless. The problem of course is that carbon steel will rust if not maintained. In our search for the best hand-tools we have decided to stock two very high quality Japanese-made products made out of carbon steel. They are not cheap but they are for the professional user whose time is money. Like carbon steel knives, rust is not a problem if used constantly.

They will, however, pay you back every day because they will stand up to heavy wear & tear.

For those who have only occasional use for hand tools, we sincerely recommend stainless steel products.

PLIERS & CUTTERS

160mm (6") Side Cutters - Insulated



This drop forged alloy tool is made to the same standards as our TH-1984 combination pliers. It is just as tough and will also cut piano wire up to 1.6mm. This is a quality tool and designed for dedicated wire cutting. It has comfortable double inset handles.

- 160mm/6" long.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1985	\$24.95	\$22.45	\$19.95

180mm (7") Bull Nose Pliers - Insulated



Strong, Tough & Reliable. These high quality drop forged alloy steel pliers are a professional tool and manufactured to the rigid German DIN standards for electrical safety & mechanical strength. They are for serious tradesmen who need a quality tool. These pliers will cut hard (piano wire) wire up to 1.6mm & soft (annealed copper, aluminium silver etc.) up to 4.0mm. Non slip double inset handles are comfortable to hold.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1984	\$24.95	\$22.45	\$19.95

170mm (6.5") Long Nose Pliers - Insulated



You can see the quality German design in these strong and attractive pliers. They are drop forged to the same standards as the other tools in the range and have the same cutting capacity - up to 4.0mm electrical wire. A very attractive tool with comfortable handles. The high quality manufacture means they can take the work and last for ages. This could be the last pair of long nose general purpose pliers you need to buy!

- 170mm / 6.5" long.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1986	\$24.95	\$22.45	\$19.95

SPECIALTY PLIERS

175mm - Screw Removing Pliers

This tool is basically designed to remove, by brute force, a hopelessly stripped out head of any type of small non-countersunk screw. The secret is an oval-shaped serrated hole in the end of the plier. You place the plier over the head of the screw, grip and rotate the plier. This system applies a lot more torque to the head of the screw than a drill bit ever could. It's reminiscent of the plier that a dentist used to extract your tooth!!! Its Japanese manufacturer has provided a beautifully made and finished product. Suitable for any screw in the range of 2.0 to 5.0mm or so, although it will work on larger screws to lesser effect.

- 175mm long
- Soft grip handle



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-2330	\$24.95	\$22.45	\$19.95

75mm (3") Sheet Metal Bending Pliers

Bend sheet metal easily with this heavy duty offset hand tool. Features strengthened rivets and dual layered pitted handle for a firm grip.

- Jaw width: 75mm
- Jaw depth: 30mm
- Overall length: 210mm
- Thin gauge aluminium, brass, etc. ok.
- Not suitable for steel over 0.8mm thick.



See page 219 for Vice Mounted Panbrake Sheet Metal Benders

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-2336	\$24.95	\$22.45	\$19.95

TWEEZERS

Anti-Magnetic Precision Tweezers

These are high quality tweezers made from anti-magnetic, anti acid steel. Perfect for handling SMD components, jewels or general electronic components.

- Length 110mm
- Supplied with protective nylon cap



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1754	\$4.45	\$3.95	\$3.45

Stainless Steel Tweezer Set

A set of 4 tweezers, three supplied with vinyl handles, comprising:

- 1 x self closing pointed type
 - 1 x long curved pointed type
 - 1 x long fine pointed type
 - 1 x flat spatula type
- Approximate length 115mm.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1752	\$8.95	\$7.95	\$6.95

ESD Safe Tweezers with LED Illumination

These precision tip tweezers are ideal for picking up tiny objects with the added benefit of a LED light to illuminate the item being handled. Ideal for working with SMD components or jewels they are ESD (Electronic Discharge) safe and have teeth on the tip to ensure reliable grip on items.

- Includes 3 x SR41 batteries
- Dimensions: 155(L) x 15(W) x 10(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1761	\$9.95	\$8.75	\$7.75

Stainless Steel Tweezer Set - ESD Safe

A set of 3; duckbill head, angled fine and straight superfine enable you to manipulate surface mount components or other tiny items with ease. ESD coating on main body of tweezers greatly reduces static discharge issues.

- Measures: Angled & duckbill 120mm, superfine 135mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1760	\$19.95	\$17.95	\$15.95

OTHER TOOLS

Inspection Mirror

Low cost inspection mirror. Ideal for looking into hard to get places.

- Length: 160mm,
- Mirror dia: 24mm.



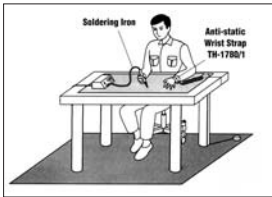
▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1872	\$4.95	\$4.45	\$3.90

Forceps (Haemostats)

These clamps are made of stainless steel and can be locked on to the item they are holding. They are 130mm long, so they are ideal to reach into hard-to-get-at places. Also great for holding components etc., whilst soldering.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1755	\$8.95	\$7.95	\$6.95



ANTI-STATIC PRODUCTS

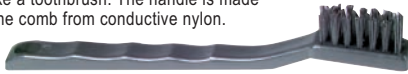
Static control - both in the workshop/factory and in the field - is becoming increasingly important for reliable manufacture, repair and/or installation of large surface mount LSI based boards.

We offer a complete line of static control products for virtually any situation.

Conductive Brush

This brush looks very much like a toothbrush. The handle is made from conductive plastic, and the comb from conductive nylon. Use it to clean anything where static is a problem.

- Resistivity: - 10KΩ - 10MΩ
- Length 178mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1775	\$9.95	\$8.75	\$7.75

Anti-Static Workplace Desk Mat

This anti-static mat measures 555(W) x 290(D)mm and is ideal for anyone who manufactures, repairs or services sensitive electronic equipment. It is about 3mm thick, has a hard wearing face over a dense sponge rubber base. Can also be used as an anti-static base for computer keyboard.

- Top colour is grey.
- See opposite for connecting leads.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1783	\$19.95	\$17.95	\$15.95

SPECIALTY SCREWDRIVERS

Keyring Screwdriver Set

This tiny key-size screwdriver set consists of a 5mm slotted driver, #2 Phillips driver and is small enough to be carried on your key ring, yet strong enough to loosen all but the toughest general purpose screws without damage. The drivers are made from chrome-vanadium steel and have a forged handle section that allows plenty of pressure to be applied to the job. Length 55mm.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2012	\$3.50	\$3.15	\$2.75

POCKET TOOL

Multifunction Pocket Tool

This handy little tool will fit in your wallet! It is the size of a credit card, made from stainless steel and features a can opener, screwdriver, ruler, bottle opener, 4 position spanners, saw blade, directional auxiliary indication and a lanyard hole. Is the ideal companion for camping, hiking, backpacking or just to keep handy for those MacGyver moments. Supplied with pouch.

- 68(L) x 45(W) x 2(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	TH-1838	\$4.95	\$4.45	\$3.95

ELECTRIC SCREWDRIVERS

Electric Screwdriver - 18 bits

Features a comfortable moulded grip, reverse and forward modes, and an LED for those hard to see spots. Three adjustable configurations from the traditional gun style to a cylindrical shape for applying extra pressure on stubborn screws or bolts. Also comes with Philips, flat, torx & hex bits.

- Torque: 2.5Nm
- Voltage: 4.8V
- Drill time: 40 mins
- Included bits: Pozz (PZ0, PZ1, PZ2, PZ3)
- Philips (PH0, PH1, PH2, PH3), Torx (T10, T15, T20, T25)
- Hex (H3, H4), Bit Extender
- Mains charger included
- Dimensions: 270(L) x 45(W) x 37(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2497	\$29.95	\$26.95	\$23.95

Anti-Static Wrist Strap

Use when static electricity is a problem when soldering, changing ICs and installing expansion cards in computers etc. Static charges can destroy ICs instantly. Consists of adjustable hook and loop wrist strap, coiled lead and banana plug/alligator clip. Expanded lead length about 1.8m



NERD PERKS
2x POINTS

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1780	\$13.95	\$12.35	\$10.95

Anti-Static Wrist Strap

Similar to the unit above, this strap has an extra long coiled lead of 3m/10ft extender. This makes it ideal for moving about your workbench without having to unclip yourself to do so. An elasticised wrist strap is also included, along with banana plug/alligator clip.

- Colour may vary.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1781	\$17.95	\$15.95	\$14.35

Anti-Static Field Service Mat / Bag

This mat is ideal for field service people, who need an anti-static work area when on the move. The mat folds out to a work area of approximately 600 x 600mm. At one end there are 2 pouches, and a ground lead and wrist strap are included. A very useful tool.

- Pouch size approx: 200 x 300mm.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1776	\$39.95	\$35.95	\$31.95

SPIRIT LEVEL

Keyring Spirit Level

Handy spirit level that attaches to your keys.

- Dimensions: 30(L) x 10(W) x 10(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1931	\$4.95	\$4.45	\$3.90

TOOL BELT

Professional Leather Tool Utility Belt

Strap this to your waist to keep your most used tools on you at all times. The belt size is fully adjustable and features a number of pockets and 2 leather loops suitable for carrying a hammer, measuring tape and more.

- 2 large main pockets
- 2 front stitched pockets
- 6 small pockets
- 2 leather hammer loops
- Adjustable web belt with buckle

Note: Tools and accessories not included



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-6373	\$19.95	\$17.95	\$15.95

102 Piece Electric Screwdriver Kit

Features a powerful high torque electric driver and a massive array of stainless steel bits that are sure to get the job done. All packaged in a tough aluminium carry case that will hold and protect your screwdriver, mains charger, and all the bits.

- Screwdriver dimensions: 144(L) x 135(H) x 40(W)mm
- Case dimensions: 250(L) x 153(H) x 88(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2491	\$49.95	\$44.95	\$39.95

NEW LOW PRICE

DRIVERS & BIT SETS

Blank Hex Driver For Individual Screw Bits

Use this driver with the bits supplied in our TD-2035 bit sets on the right. It will accept any hex bit in our range and features non-slip rubber handle with magnetic chrome vanadium 50mm long shaft.



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
160mm	TD-2032	\$6.95	\$6.25	\$5.50

7 Piece Hex Nut Driver Set

A useful set of hex nut drivers with deep sockets that allow a generous length of thread to protrude though the nut you are tightening. Sizes supplied are M3, M3.5, M4, M4.5, M5, M 5.5, and M6. A plastic storage pouch keeps the set together.



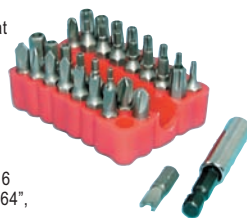
• A quality Japanese product.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2339	\$29.95	\$26.95	\$23.95

The Power Driver Bit Set - 32 Pieces

The set consists of 32, yes 32 of the driver bits that you don't normally see. You don't get any slotted, Phillips or Pozidriv™ bits.

- 4 x Tri - wing, size 1, 2, 3, 4
- 9 x Torx (tamperproof), size T8, T10, T15, T20, T25, T27, T30 and T35
- 4 x Pin drive (snake), size 4, 6, 8 and 10
- 6 x In - Hex (allen), *metric, size 2, 2.5, 3, 4, 5 & 6
- 6 x In - Hex (allen), *imperial size 5/64", 3/32", 7/64", 1/8", 9/64" and 5/32"
- 3 x Torque Set, size 6, 8 and 10.



With this you get a hex driver with magnetic retainer, all in a nifty plasticity - rubber holder that is smaller than a deck of cards! (67 x 45 x 30mm).

*Tamperproof Torx works as normal Torx as well.

*Tamperproof In - Hex drive type.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2035	\$14.95	\$13.35	\$11.70

100 Piece Driver Bit Set

The ultimate driver bit set includes:



- 1 x magnetic bit holder
- 1 x square to hex socket driver 50mm
- 1 x square to hex socket driver 25mm
- 1 x square to hex bit adaptor

Driver bits:

- Phillips # 0, 1, 2 (x5) & 3
- Pozidriv™ # 0, 1, 2 (x5) & 3
- Square drive # 0, 1, 2 & 3
- Slotted 3, 4, 4.5, 5, 5.5, 6, 6.5, 7 & 8mm
- Pin drive (snake) # 4, 6, 8 & 10
- Torque Set # 6, 8 & 10
- Torx T8, T10, T15, T20, T25, T27, T30, T40 & T45
- Tamper proof Torx (Metric) T8, T10, T15, T20, T25, T27 & T30
- Hex (Allen) Metric 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 5.5, 6.0 & 8.0mm
- Tri-Wing # 1, 2, 3 & 4
- Clutch drive # 1, 2 & 3
- Hex (Allen) Imperial 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32 & 1/4"
- Spline drive M5, M6 & M8
- Tamper Proof Allen (Metric) 2.0, 2.5, 3, 4, 5 & 6mm
- Tamper Proof Allen (Imperial) 5/32, 9/64, 1/8, 7/64, 3/32 & 5/64"
- Wing nut driver,
- All in a snap lock case with clear markings to show where each bit rests.



High Impact
S2 Steel

Note that commonly used driver bits are supplied in greater numbers.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2038	\$24.95	\$22.45	\$19.95

PRECISION DRIVER SETS

5 Piece Torx Set

Easy to use colour coded Torx screwdrivers in a plastic case. Each screwdriver has a swivel head for easy use. Blade length is 20mm and torx sizes are T6, T7, T8, T9 & T10.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2070	\$12.95	\$11.35	\$10.35

6 Piece Precision Tamperproof Torx Set

A quality set of chrome vanadium drivers consisting of T7, T8, T9, T10, T15 and T20. All drivers are 145mm length & presented in a felt-lined plastic case.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2021	\$19.95	\$17.95	\$15.95

12 Piece Keycase Mini Driver Set

12 mini bits & driver in a key-sized storage case.

- Flat: 1.5, 2, 2.5mm
- Phillips: 0, 00, 000
- Torx: T5, T6, T7, T10
- TN8, Hex 2.5mm
- Case size: 95(H) x 60(W)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2105	\$18.95	\$16.95	\$14.95

32 Piece Precision Driver Set

High quality driver set with all those really small bits. Tactile handle with hardened hex shaft from 140 to 210mm. Ideal for jewellery, model making or electronics. Storage case included.

Slotted: 1, 1.5, 2, 2.5, 3, 3.5, 4mm

Phillips: 000, 00, 0, 1

Pozidriv: 0, 1

Torx: T4, T5, T6, T7, T8 T9, T10, T15, T20

Hex: 0.7, 0.9, 1.3, 1.5, 2, 2.5, 3, 4mm

Case: 157(L) x 100(W) x 27(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2106	\$18.95	\$16.95	\$14.95

15 Piece Micro Driver Set

This handy set comes with all those microscopic fasteners we come across in modern electronics. The ergonomic handles are colour coded and they come in a sturdy storage case.

Slotted: 1mm, 1.4mm, 1.8mm, 2.4mm

Phillips: #000, #00, #0, #1

Torx: T5, T6, T7, T8

Hex: 1.5mm, 2mm, 2.5mm

Drivers: 105mm long

Case size: 192(L) x 130(W) x 26(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2069	\$24.95	\$22.45	\$19.95

22 Piece Long Bit Screwdriver Set

Tackle a wide range of fastening scenarios using our compact screwdriver set comprising a selection of popular slotted, Phillips, Star and TRI bits, packed away neatly inside a handy storage case.

Slotted: SL1.5, SL1.7, SL2.0, SL3.0 and SL4.0

Phillips: PH000, PH00, PH0, PH1 and PH2

Star: T5, T6, T7H, T8H, T9H, T10H, T15H and T20H

TRI: 2.5, 3.0

Pentagonal: 1.6

Pin drive (snake): SP2



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2114	\$34.95	\$31.45	\$27.90

ATTENTION ALL TRADIES!



If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to

substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type and quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

DRILLS & ACCESSORIES

350W 240VAC Electric Drill

A powerful 240V electric drill suitable a variety of tasks around the house or on the job. Features a forward/reverse switch, lock setting, and moulded plastic grip. You can also adjust the speed of the drill when the full power is not required. Will accommodate bits up to 10mm and includes a handy belt clip.

- Mains powered
- Cable length: 1.8m
- Dimensions: 250(L) x 190(H) x 65(D)mm



▲	Cat.	Qty 1+
	TD-2493	\$19.95

Drill Assistant with Laser Leveller

Drill holes in walls easily, on the level and with no mess. This drill assistant uses vacuum suction to attach to virtually any wall without leaving marks, and features float levels and a laser to ensure the hole you are about to drill is in the right position. There's even a compartment that captures the dust to avoid it falling to the floor.

- Vacuum Suction
- Built-in Laser
- Built-in Level
- Drill guide
- Dust catcher
- Requires 2 x AA batteries
- Dimensions: 238(L) x 100(W) x 48(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2151	\$19.95	\$17.95	\$15.95

Universal Drill Press Stand

Convert your standard power drill or rotary tool into a drill press with this adjustable stand. Substantially cheaper than purchasing a full drill press, the stand still has all the necessary features expected in a full size press. It includes separate adjustments for limiting press depth and drill height so you can change drill position with minimal risk of over-drilling into the stand. The drill collar can be adjusted to suit a variety of tools. Heavy duty cast metal base and frame provides excellent stability.

- Allen key supplied for tightening drill collar
- Drilling depth: Up to 60mm
- Maximum collar diameter: 43mm
- Minimum collar diameter with insert: 35mm
- Dimensions: 497(H) x 350(W) x 160(D)mm



Note: Drill not included

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2463	\$39.95	\$35.90	\$31.90

BENCH VICE

Mini Bench Vice

This sturdy lightweight vice will clamp to surfaces up to 1" thick and hold material up to 2" thick. This handy tool is ideal for hobby work or as a light duty workshop bench vice. Made from strong, lightweight aluminium that won't rust or corrode, the vice will be a useful addition to anyone who needs a third hand!

- Vice jaws are 63.5mm wide and will open to more than 50mm.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1764	\$14.95	\$13.35	\$11.70

Vacuum Bench Vice - 75mm Jaw

This quality vacuum vice is made from hard-wearing diecast aluminium. The vice consists of three-pieces; a vacuum base, ball joint clamp and a 75mm opening jaw with removable soft rubber jaw covers. The 'V' grooved jaws are ideal for holding cylindrical and irregular shapes, making it well suited to small bench jobs such as model building, jewellery making and general PCB/chassis work. The multi-positional ball swivel allows the jaws' working position to be varied through a full 360° axis.

- Stands approximately 160mm tall.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1766	\$39.95	\$35.90	\$31.90

270° Rotation Clamp Vice

Rotate the head through 270° to make your work easier. The base will clamp to any bench or table up to 55mm thick and the 40mm jaws will take a job up to 58mm in size. Once in position, the head is easily fixed in position with a quick release lever.

- Base: 115(W) x 94(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1769	\$32.95	\$29.95	\$26.35

TAPE MEASURE

1m Key Chain Tape Measure

A handy retractable tape measure to take wherever you go. Durable yellow ABS body with a soft black rubber surround for comfort and grip. Small enough to keep in your pocket or clip to a set of keys.

- Measuring length: 1m
- Scale: Metric & Imperial
- Lockable
- Dimensions: 40(H) x 40(W) x 13(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-2500	\$2.95	\$2.60	\$2.30

VICE / BENDER

Sheet Metal Bender - Pan Brake Style (Vice Break)

This unit sits in the jaws of your bench vice (100mm+ recommended). It retains itself in the vice with strong recessed magnets. One half consists of the familiar blade that bends the sheet metal. The other half in the 90 degree recess that the blade pushes into. By carefully positioning the sheet, you can perform a perfect 90 degree bend as good as a workshop! The blade is segmented, just like a workshop pan brake, so that you can make partial bends. With a little practice, you will be able to fabricate brackets, small boxes & other metal assemblies like a pro.

Warning: This unit is not particularly cheap. It is, however, very well made. It is cast steel with tool steel pressing components. You need it to be sturdy, otherwise it would break or flex. It will, literally, last a lifetime.

Will fold sheet up to 125 wide, however there are 3 x press segments 2 x 50mm, 1x25mm and these are independently removable by Allen head set screws. Depending on the width of the material you could easily bend steel strips up to 4mm thick and 25mm wide. Aluminium should not be a problem up to 4mm thick & 100mm wide, depending on your vice.

- Dimensions: 125(L) x 30(W)mm both halves



See page 216 for Metal Bending Pliers

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1763	\$79.95	\$71.95	\$63.95

DRILLS & DRILL SETS

20 Piece Micro Drill Set 0.3 - 1.6mm

20 micro drills in an indexing storage case, ideal for drilling wood, composites, plastic or soft metals. Indexed case enables removal of the bit you want without the risk of spilling them all over the place.

- Sizes: 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95, 1.0, 1.2, 1.3, 1.4, 1.6, 1.6mm
- Case size: 130(L) x 70(H) x 8(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2406	\$12.95	\$11.35	\$10.35

31 Piece Mini Tap & Die Set

This 31 piece set is for the ultra small screws found in electronics. The kit consists of 9 metric screw cutting dies: 1.0, 1.1, 1.2, 1.4, 1.6, 1.8, 2.0, 2.2 & 2.5mm types in high speed steel and 18 equivalent taps in the same sizes above but with a taper and a plug version of the tap. There are 2 die liners to accommodate the smaller dies in the stock supplied. You will love this rare product. Supplied in a see-through plastic case which securely holds all parts.

- Dimensions: 83(W) x 153(L) x 12(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2443	\$74.95	\$67.45	\$59.95

PCB Drill Chuck

This chuck will allow you to use drill bits from 0.6mm up to 2mm on your normal drill / cordless drill / power screwdriver or screwdriver which accepts standard hex bits.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2010	\$9.95	\$8.75	\$7.75

Pin Vice

A handy addition to any tool case. All metal construction with two internal collars. The head rotates freely making it ideal for drilling delicate PCBs or plastic cases.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1772	\$13.50	\$11.95	\$10.70

WORKSHOP TOOLS

4 Piece Mini Pick & Hook Set

These hook tools have stainless steel heat treated points, and are ideal for use on O-rings, springs, snap rings, washers, checking soldering joints, general hobbyist kit building, and probing into things, etc.

Hooks are:

- Straight pick, 90° hook, full hook, small angle hook.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1762	\$15.95	\$14.35	\$12.70

Pearl Catch

Incredibly handy tool for those moments when you need to pick up small fiddly bits and pieces.

- Will clip to and hold small nuts, bolts, washers, transistors, resistors, etc
- Metal construction

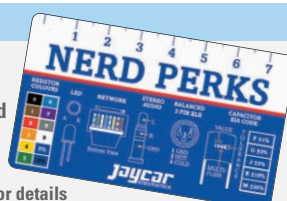


▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1842	\$9.95	\$8.75	\$7.75

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!
Sign-up in-store or online.

*Conditions apply. See front of catalogue for details



Spiral Drive Drill / Driver



This unit is reminiscent of drill/drivers of 50 years ago (before cordless drills). The unit consists of a collet-type chuck and handle with a spiral shaft. Pushing the handle towards the job causes the collet to rotate. This would enable a drill (or screwdriver bit for that matter) to very gently and slowly rotate. It is ideal for very fine work and does need some practice to perfect your technique.

- Includes 2 pin vice collets: 0.3-1.0mm & 1.8-2.6mm
- Also 3 small drill bits in tubular case
- Dimensions: 180(L) overall (uncompressed) x 15(Dia.)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2089	\$17.95	\$16.15	\$14.35

Stepped Drill Bits

Drill multiple size holes with the one bit! You can drill through plastics and non-hardened metals (such as aluminium or copper sheeting etc) up to 4mm thick! Made from high speed steel (HSS), they will last for a very long time.

Two sizes available:

- 4 - 12mm drill in 1mm steps - TD-2436
- 12 - 20mm drill in 1mm steps - TD-2438



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
4 - 12mm	TD-2436	\$14.95	\$13.35	\$11.70
12 - 20mm	TD-2438	\$24.95	\$22.35	\$19.70

4 Piece Countersink Set

The easy way to deburr or countersink. Simply drill hole, insert tool with appropriate bit, and turn for a countersunk angle of 90°. Bits include 12, 16 and 19mm - all hardened carbon steel.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2027	\$13.95	\$12.35	\$10.95

M4 Metric Taps

Clean up a cross threaded nut or cut a thread into a chassis or heatsink etc. High quality tool steel.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
4mm	TD-2442	\$4.45	\$3.95	\$3.45

Super Extension Claw & Magnetic Pickup

Actually two tools. Tool No. 1 is a 600mm long flexible syringe-action claw gripper similar in operation to a pearl catch. The 4 prong gripper will capture an object up to 15mm in diameter with about 500g of gripping force. It is ideal for retrieving, say, a nut or screws in an engine compartment or piece of equipment.

Tool No. 2 is the same thing except that it has a magnet on the end instead of a claw. We sell them as a set because they complement each other.



▲	Cat.	Qty 1+	Qty 6+	Qty 20+
	TH-1868	\$7.95	\$6.95	\$6.25

Scriber

This pen type tool will scribe on metal, glass, plastic, ceramics and tools. Stylus is made of tungsten steel. Looks like a pen, and has a pocket clip.
• Length 110mm.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2120	\$7.95	\$6.95	\$6.25

Automatic Centre Punch

This handy tool allows you to make a centre punch mark with one hand.

You simply hold the unit against where you would want a centre punch mark, apply downward pressure until the internal hammer mechanism trips. The pressure is adjustable, depending on the hardness of the surface. Sturdy brass body with hardened steel centre punch. 125mm long overall.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1770	\$7.95	\$6.95	\$6.25

MAGNETS

Large Rare Earth Magnets - Pair

These rare earth magnets are exceptionally strong. They are made from NdFeB (Neodymium Iron Boron), providing the highest available magnetic energy of any material. Suitable for a wide variety of applications where a very strong magnet is required. The nickel casing protects the magnets because the material is very brittle.

- Sold as a pair.
- Dimensions: 19mm dia x 28.2mm long
- Grade: NdFeB, N35
- Coating: Nickel



▲	Cat.	Qty 1+	Qty 6+	Qty 20+
	LM-1652	\$29.95	\$26.90	\$23.70

Ferrite Magnets

Ideal for hobby and craftwork, school projects etc. Can be glued to wood, plastic rubber etc.

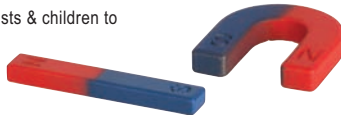


▲	Cat.	Qty 1+	Qty 6+	Qty 20+
	10L x 10W x 4Dmm - Pkt 12 LM-1616	\$6.95	\$6.25	\$5.50
	20L x 15W x 5Dmm - Pkt 6 LM-1614	\$6.95	\$6.25	\$5.50

Magnet Bars

Educational magnets. Ideal for hobbyists & children to learn more about magnetism.

- Each end is marked with "N" or "S"



▲	Cat.	Qty 1+	Qty 6+	Qty 20+
	Bar Magnet - 70L x 12W x 5Dmm TH-1874	\$1.95	\$1.75	\$1.55
	U Shaped - 30mm x 30mm TH-1873	\$1.95	\$1.75	\$1.55

KNIVES

14 Piece Precision Hobby Knife Set

Handy hobby tool set comprising of 10 different blades, handle, 70mm long tweezers, 90mm long flat screwdriver and vernier calipers, which measure up to 81mm (3.1 inches).

Blades included:

- | | |
|---------|---------|
| 1 x #1 | 3 x #11 |
| 1 x #4 | 2 x #12 |
| 1 x #7 | 1 x #17 |
| 1 x #10 | |

- Case dimensions: 170(W) x 85(W) x 35(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	Hobby Knife Set TH-1916	\$19.95	\$17.70	\$15.70
	Spare Blades - 10 Per Set TH-1917	\$5.95	\$5.25	\$4.75

FILES

File Saw

This is a versatile tool that will find many uses around the home or workshop. Great for cutting odd shapes in plaster, PVC pipe, PVC sheeting, leather, plastic and many other soft materials. The tool will trim holes to any radius and get into places where others won't. The blade measures 175mm long and the large, easy grip handle is 120mm long. Not to be used as a nerve broach or other dental work.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-2127	\$15.95	\$14.35	\$12.70

Deburring Tool

Clean up the edges of a hole. Suitable for steel, plastic, wood etc. Blades are fully ground for safety. SK2 steel blades are hardened to HRC64. Supplied with spare blade. Will deburr virtually anything.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1845	\$9.95	\$8.75	\$7.75

Rare Earth Magnets with Mounting Holes

Super powerful rare earth magnets with 4.5mm countersunk mounting holes so you can fix them to your project to latch a door closed, etc.



▲	Cat.	Qty 1+	Qty 6+	Qty 20+
	Round 25(Dia) x 5mm LM-1626	\$18.95	\$16.95	\$14.95
	Rectangle 50(L) x 20(W)mm LM-1628	\$24.95	\$22.35	\$19.70

Rare Earth Magnets

These magnets feature rare earth compounds combined with ferrite (anisotropic) to produce incredibly strong attraction/repulsion. They are encased in nickel jackets because the material itself is very brittle. We warn you that getting a finger between these could result in a nasty pinch! They are provided with a nickel plated iron "keeper".



▲	Cat.	Qty 1+	Qty 6+	Qty 20+
	Small - 10mm dia x 3mm - Pkt 4 LM-1622	\$13.95	\$12.35	\$10.95
	Medium - 25mm dia x 5mm - Each LM-1618	\$17.95	\$15.95	\$14.35

Flexible Adhesive Magnetic Rubber Strip

This self adhesive magnetic rubber strip can be cut down to suit an application and makes an ideal fridge magnet for adhering to promotional material such as menus, calendars etc.

- Dimensions: 15(W) x 500(L)mm
- 2mm thick



▲	Cat.	Qty 1+	Qty 6+	Qty 20+
	LM-1612	\$5.95	\$5.25	\$4.75

Artwork Knife

Light duty precision knife with safety cap. Ideal for fine angle cuts, etching, hollowing, scoring, scraping, scribing, stripping and trimming. Four piece jaw chuck method of blade retention.

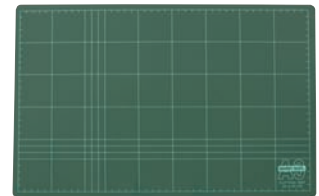


▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	Knife HG-9955	\$4.95	\$4.45	\$3.90
	Blades Pkt 5 HG-9956	\$3.95	\$3.45	\$3.15

Benchtop Work Mat

Protect your benchtop. This durable A3 size PVC cutting mat is just the thing to protect your work benchtop. You can cut on it, solder, write on it, and not damage your workplace.

The mat is 3mm thick, and measures 450 x 300mm.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	HM-8100	\$12.95	\$11.35	\$10.35

10 Piece Needle File Kit

Every toolbox should have a set of needle files. This set contains every profile you could ever need. All have integrated plastic handles and come in a handy storage wallet. Each is 162mm long.

Profiles:

- Round
- Elliptical
- Half-round
- Double half round
- Triangle
- Square
- Flat
- Flat tapered
- Knife
- Flat tapered safe back



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	10 Piece TD-2128	\$14.95	\$13.35	\$11.70

SPANNER AND ALLEN KEY SETS

10 Piece Spanner Set for Electronics

Ideal mini spanner set. Set of 10 pieces, open end/ring combination. Suitable for light hobbyist use.

- Sizes supplied are: 4.0, 4.5, 5.0, 5.5, 6.0, 7.0, 8.0, 9.0, 10 & 11mm
- Supplied in a plastic wallet



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1910	\$24.95	\$22.45	\$19.95

25 Piece Allen Key Set

25 different size Allen keys in a plastic wallet. Both metric and imperial sizes.

- Metric: 1.27, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 8.0, 10.0mm
- Imperial 3/8, 1/4, 7/32, 3/16, 5/32, 9/64, 1/8, 7/64, 3/32, 5/64, 1/16"



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2052	\$11.95	\$10.70	\$9.50

ALLEN KEYS ADAPTED TO CORDLESS DRILL USE

Allen keys are very common these days and small sets like the one above are really quite inexpensive. The boss here has a set where he has cut off the short return piece of the Allen key with an angle grinder. The Hex bit then fits conveniently into

the chuck of the cordless drill. The low speed setting on a typical "cordless" is generally more than enough torque for most jobs. It's a great way to assemble flat-pack furniture & saves wear & tear on your fingers.

TECH TALK



WATCH REPAIR TOOLS

Jaycar has been fiddling with micro tools for years now, from tiny jewellers screwdrivers to small spanner sets to tiny table mounted vices etc..

We have discovered a source of reasonably priced watchmakers' tools (real; pull-watches-apart-tools.) Here they are, folks.

We expect them to be popular; they are Jaycar kind of products.



2 Piece Watch Case Opener Set

This set consists of an adjustable opener that engages the little recesses on the back of a watch. You can adjust the removing lugs very accurately to get a tight fit - absolutely essential. The other half of the set looks like a small oyster shucking knife (Appropriate when you think about it!). It is just fine enough to get into that tiny groove that some of the older watch covers have.

- Can open cases 6 - 50mm diameter



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1929	\$24.95	\$22.45	\$19.95

4 Piece Watchmakers' Kit

Central to this kit is the hand held watch case opener/holder. It has a screw-adjustable case retainer with a very large selection of retaining lugs - indeed 18 in all, some the same. Also included as a large dusting bulb pump, No. 7 tweezers and fine dusting brush.

You will be delighted with this set.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1932	\$34.95	\$31.45	\$27.90

Watchmakers Mallet with Interchangeable Heads

This unit weighs almost 90 grams and is 185mm long. It features 6 different heads, 4 steel ones, a brass one and acrylic plastic one. It seems that even in watchmaking you need a "persuader". Ball pein on the opposite end.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1927	\$14.95	\$13.45	\$11.95

Watch Bracelet Link Removal Pliers

This tool enables you to remove and reinstall the fiddly little bracelet pins, so necessary when the bracelet band is new and generally too big for the wearer. It comes with a 1.0mm and 0.8mm pin removal insert.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1923	\$39.95	\$35.90	\$31.90

Watch Case Holder

The sturdy, but adjustable frame has 4 nylon retaining posts to enable a good safe grip on the watch case. The frame could then be held in a vice, freeing up your hands.



Note: Watch not included

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1934	\$15.95	\$13.95	\$12.45

Wrist Strap Spring Bar Assortment

This is a must. A selection of the little spring bars that get broken/bent/lost even by the most careful wearers. This set frees you from the tyranny of the watchmaker. One use will pay for the cost of the whole set.

The assortment consists of a total of 360pcs of the most common sizes: from women's 8mm to men's 25mm. All 1.5mm Dia. In detail the set includes 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24 & 25mm types. Has single sided spring bar and double sided types.

Supplied in quality compartment case.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1928	\$24.95	\$22.45	\$19.95

Pin Extractor Press

A handy little pin-extractor/insertor press with a 0.8mm punch. Mainly intended for taking links out of watch bands, but endless other uses for jewellery making, modelmaking and hobbies.

- 2 spare pin punches
- Assortment of 12 pins



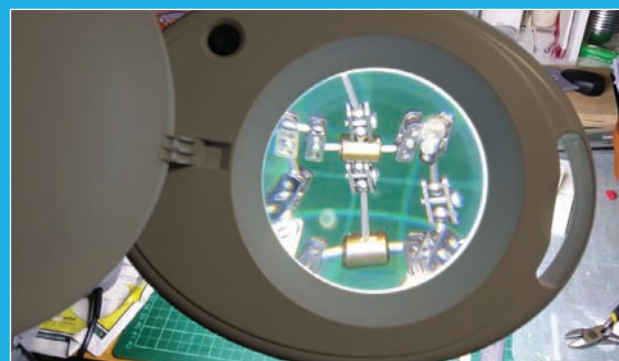
See our Mini HSS Tap & Die Set on page 220

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-2014	\$10.95	\$9.85	\$8.75

SHOW US YOUR BUILD COMPETITION

Jim, who shops at our Jaycar Cairns store built:

The Jaycar tool I am showing is my trusty illuminated magnifier. It is trained on my steel animation armature. The armature being made ready for filming.



LABORATORY MAGNIFIERS & LAMPS

Eye Magnifier

This 3 times magnifier is handy for checking PC boards, looking at stamps or coins, jewellery, etc, etc.

- Every hobbyist should have one.
- Dimensions: 28(H) x 22(dia view area) x 40(dia base)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3515	\$8.95	\$7.95	\$6.95



See our range of Digital Microscopes on page 291

Magnifying Glass

This huge 4.5" diameter viewer allows hands free operation. It will fold into a neat and easy to store package.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3505	\$8.95	\$7.95	\$6.95

Micro Magnifier with LED

Having trouble reading or working on your hobby in fading or poor light? This convenient pocket-size magnifier with super bright LEDs allows you to work or read for longer periods. Comes complete with a soft pouch for easy storage. Ideal to take travelling or camping.

- 2 Super bright white LEDs
- 3 X magnification with super 5 X magnifier
- One touch ON/OFF operation
- Dimensions: 90(H) x 58(W) x 6(D)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3531	\$10.95	\$9.85	\$8.75

Magnifying Lens with LEDs

Ideal for the elderly or vision-impaired. Keep one in the glovebox for reading the street directory in the dark.

- Big, clear 90mm lens illuminated by two LEDs
- Requires 2 x AAA batteries
- Dual magnification: 3X & 5X
- Case and cleaning cloth included
- Dimensions: 90(Dia.) x 160(L)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3537	\$13.95	\$12.55	\$11.15

10x LED Magnifier with Scale

With all metal construction and glass optics, this superb little magnifier provides 10 dioptre magnification with razor-sharp clarity. Inside the viewer is a graduated scale in metric and imperial graduations so you can actually take measurements of an object down to fractions of a millimetre. Three LEDs and the 26mm eyepiece provide crystal-clear even illumination of the subject. Ideal for checking PCBs in pre-production, lab, science, education or engineering applications. 2x AA batteries included.

- 10x magnification
- All metal construction
- Satin chrome finish
- Ground glass optics
- Dimensions: 180(L)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3539	\$29.95	\$26.95	\$23.95

GIFT CARD

Can't find what to buy?
Give a Jaycar Gift card and let them choose!



LED Headband Magnifier

This magnifying headset leaves both hands free and can be worn over prescription or safety glasses. It also has a built-in LED light that can be rotated up, down or side to side to illuminate your work. There are three lenses that can be used in combinations to give 1.5x, 3x, 8.5x or 10x magnification. The head strap is fully adjustable and locks into position and the lens assembly can be swivelled up out of the way when not in use. A multitude of uses including lapidary, jewellery, model-making, electronics and camera repair.

- Requires 2 x AAA batteries



IT TILTS UP
OUT OF THE
WAY



HANDS
FREE
MAGNIFYING

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3511	\$29.95	\$26.95	\$23.95

Illuminated Gooseneck Magnifier

The gooseneck magnifier is a valuable accessory for coin/stamp collectors, photography etc. The 2X main lens and 5X insert lens with the bonus of 2 LED lights, is a welcome addition for any hobbyist. The magnifier is clip-on or free standing. Suitable for most flat surfaces or workplace incline up to 38mm thick. The flexible metal arm ensures that you can position the magnifier just where it's needed.

This handy magnifier also comes with a soft protective pouch for your lens to protect it from dirt and dust. It also has metal stabilisers to ensure that your magnifier remains stable while working.

- Stands 225mm high
- Includes protective lens pouch
- Lens Diameter: 88mm
- Requires 3 x AAA batteries



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3532	\$29.95	\$26.95	\$23.95

6/12 LED Magnifying Glass

Extremely robust, this is not the kind of magnifier you keep in the desk and bring out occasionally. All metal construction makes it ideal for the lab, workshop or photography studio. The high quality glass lens provides superior optics. 12 LEDs ensure ample illumination for your work and can be switched to a low power setting of 6 LEDs.

- Zip nylon carry case
- 85mm lens diameter
- 3.5x dioptre magnification
- Requires 2 x AA batteries
- Dimensions: 240(L) x 110(Dia.)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3534	\$39.95	\$35.90	\$31.90

SHOW US
YOUR BUILD
COMPETITION

Mark, who shops at
our Jaycar
Launceston store
built:

With such a small space
I have everything I need
to break and sometimes
fix a lot of things!



LABORATORY MAGNIFIERS & LAMPS (CONTINUED)

Desktop Lab LED Magnifying Lamp

No more fluorescent tubes to replace on your maggy lamp. Sixty LEDs provide ample illumination, perfectly even light and the 3x and 12x magnifying lenses show all the detail you need. Being LED, there's no delay in startup and they'll never need replacing. Ideal for hobbies, model making or jewellery.

- 1.3m mains lead
- Dimensions: 320(H) x 95(Dia.)mm
- Lens Dia. 100mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3544	\$64.95	\$58.45	\$51.95

5 Dioptre LED Magnifying Lamp

Magnify and illuminate objects for analysis. A must have tool for technicians, researchers, or for general hobby work that involves soldering, connecting wires between small parts, and other fiddly jobs where the human eye simply does not suffice. This model has a metal frame and a 5 dioptre lens allowing excellent magnification. The main extension arm can be manoeuvred in a myriad of ways to achieve perfect positioning and the lens is ringed with 90 bright white LEDs. Attachment to a desk can be achieved with the supplied clamp while a rolling base mount is available separately (QM-3549).

- 5 dioptre lens
- Lens Dia.: 127mm
- Mains powered (1.5m lead)
- 90 x bright white LEDs
- Dimensions: 77(L) x 38(H) x 25(W)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3548	\$119.00	\$106.95	\$94.95

Desk Mount LED Laboratory Magnifying Lamp

This is a high quality, all metal frame construction magnifier which features 90 super bright LEDs inside the magnifier head. The magnifier itself is made of glass and is a 3 dioptre lens, with a metal handle for quick repositioning. A thumb screw positioned in between the two flexible extension arm assemblies (total extended length 990mm) allows exact positioning of the lens, and is assisted by a further thumb screw next to the lens head itself.

Mounting the magnifier is simple - screw the base onto the side of any desk or workbench (approx maximum table top thickness 45mm), and slot the magnifier into the bench mounted receptacle. The LEDs can be turned on or off with a magnifier head mounted switch, with the unit itself plugged into a mains outlet via a generous 1.5m long cord. A great tool to assist PCB assembly/inspection, jewellers, stamp/coin dealers, etc.

- 3 dioptre magnification
- Lens Dia.: 120mm
- Light source: 90 LEDs
- Mains powered
- Total extended length 990mm



See page 181 for similar Bench Type Units



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3546	\$109.00	\$97.95	\$86.95

Rolling Floor Base for Magnifying Lamps

Mount a magnifying lamp to this base and you can roll it around the floor providing even greater flexibility in observation work. Great for lab work. Heavy base so it doesn't easily topple over.

- Suitable for use with magnifiers QM-3548 and QM-3546
- Dimensions: 700(H) x 385(Dia)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	QM-3549	\$99.95	\$89.95	\$79.95

ULTRASONIC CLEANERS

Domestic Ultrasonic Cleaner

Suited to domestic use this ultrasonic cleaner cleans all your watches, jewellery, fountain pens, dentures, razor heads, printer heads, small silverware and small machined parts. Mains powered and easy to use. Fill the tank with water, add a mild cleaning solution and set the timer. The LCD tells you how long to go and the timer has 5 settings from 90 seconds up to 7 minutes 30 seconds.



SPECIFICATIONS	YH-5408
Tank volume	550ml
Power consumption	50W
Time settings	1 1/2 minutes 6 minutes 3 minutes 7 1/2 minutes 4 1/2 minutes

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	YH-5408	\$79.95	\$74.95	\$63.95

PCB Wash Defluxing Solution

Removes flux and residue from circuit boards to provide an extremely clean and contaminant free surface. The ready to use solution can be safely used in ultrasonic tanks for various applications including: jewellery, metal parts degreasing, removing flux and cleaning sensitive electronic parts. Appropriate for both static and ultrasonic cleaner use.

- Non-flammable
- Water-based (Biodegradable)



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	NA-1070	\$14.95	\$13.45	\$11.95

Digital 2.5L 170W Ultrasonic Cleaner

This unit features a generous 2.5 litre 304-grade stainless steel bowl, controllable heating element and digital controls. It comes with a lid (if you are using volatile solvents), features a stylish cabinet design and is supplied with a basket. Very well built.



SPECIFICATIONS	YH-5412
Tank Capacity	2500ml (Max 2100ml, Min 600ml)
Power consumption	170W @ 240V 50Hz
Time settings	1 min 30sec, 3 mins, 4 mins 30 sec, 6 mins 30 sec, 8 mins
Ultrasonic freq	35kHz
Ceramic heater	100W approx with 65°C temp limit
Weight	2.5kg
Tank dimensions	245(W) x 150(D) x 76(H)mm
Unit dimensions	290(W) x 223(D) x 185(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	YH-5412	\$169.00	\$151.95	\$134.95

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Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

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*Conditions apply. See front of catalogue for details



ROTARY TOOLS & ENGRAVERS

Micro Engraver

Engrave your valuables for security or insurance. The tiny diamond coated tip spins at 10,000 RPM so you can personalise tools, sporting gear, toys, security ID on valuables etc. Engraves glass, ceramics, metals and plastics. Batteries and case included.

- Tip is replaceable.
- Dimensions: 160(L) x 15(Dia)mm
- Replacement tip sold separately Cat TD-2469



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Micro Engraver	TD-2468	\$24.95	\$22.35	\$19.70
Spare Tip	TD-2469	\$6.95	\$6.50	\$5.50

110 Piece 12V Rotary Tool Set

Drill, saw, sand, polish, carve or grind in your workshop or out on the road. 110+ bits and attachments cover every possible task you'll ever need. The rotary tool is rated for 12V at 12,000 RPM. Ideal for hobby or professional use.



Rotary tool: 12VDC, 16W, 12,000 RPM

Attachments:

- Sanding belts 3 x 6mm
- 5 x Sanding Bands: 1/4" x 1/2"
- 6 x Sanding bands: 1/2" x 1/2"
- 4 x Collets: 1.6mm-2.3mm-3.2x2
- 1 x Dressing Stone 1"x 3/8"
- 1 x Felt Wheel Pointed: 3/8" x 3/4"
- 2 x Rubber Emery Wheel
- 4 x Felt Wheels: 1/2" x 1/4"
- 20 x Sand papers
- 2 x Felt Wheels: 1"x1/4"
- 1 x Cloth wheel 1"x 1/8"

- 2 x sanding shanks: 1/4"x1/2", 1/2"x1/2"
- 4 x HSS Twist drills: 1.6mm x 2, 2.3mm x 2
- 3 x Mandrels For Wheel
- 5 x Diamond cutters
- 2 x HSS cutter
- 9 x Grinding wheels with Shank
- 3 x Brush
- 30 x cut off wheels
- Heavy duty: 0.8mm
- 1 x Polishing compound
- 1 x mini engraver

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
12V 110 Piece Rotary Tool Set	TD-2451	\$34.95	\$31.45	\$27.90

210 Piece Rotary Tool Kit with Flexible Shaft

Flexible shafts are particularly useful for porting heads in engines, but have a multitude of other applications where you need to get into a tight space or get more control of the bit. The kit consists of a powerful mains powered 32,000 RPM rotary tool that you can use with numerous attachments in the usual way, plus a 1m long flexible shaft. The flexible shaft attaches in seconds to give extra versatility. Suitable for modelmaking, automotive, workshop, art, jewellery or sculpture.



ROTARY TOOL	TD-2459
Speed	10,000 - 32,000 RPM
Power	135 Watts@240VAC
Dimensions	210(L) x 52(Dia)mm
Shaft length	1000mm

Attachments:

- Sanding arbours
- P80 sanding belts
- Sanding discs
- Collets: 2 x 3/32", 2 x 1/8"
- Drill bits: 2 x 1/16", 2 x 3/32"
- Grinding stones: 20 x 4mm wheel, 10 x 4mm wheel, 15 x 10mm cylinder, 12 x 10mm cylinder, 7 x 4mm cylinder, 20 x 10 bullet, 11 x 8mm tapered bullet,
- Tungsten carbide burrs: 3mm straight, ball profiles
- Diamond coated burrs: 4mm ball, 2mm fine cone taper, 3mm pinecone, 4mm cone
- Polishing wheels: 12, 25mm
- Steel, fibre wire brushes
- 30mm cut-off wheels
- 20 x 4mm grinding wheels
- Paint-removing wheel
- 3/8" collet spanner, arbours, shafts, polishing compound.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
240VAC 210 Rotary Tool Set	TD-2459	\$54.95	\$49.45	\$43.95



GLUE GUNS

Mini Glue Gun - 30W

A glue gun is a handy tool to have around the house. It's fast, easy and simple to use with trigger controlled glue feed. Suitable for toys and models, decorations, furniture, woodwork, cardboard, etc.

- Mains powered
- Requires 7mm diameter glue sticks (2 supplied)

Note: For intermittent use only.
Not for production use

GLUE STICKS FOR MINI GUN

To suit the mini glue gun.

- Dimensions: 7mm dia. x 100mm long
- Suits TH-1997 mini gun



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
30W Mini Glue Gun	TH-1997	\$12.95	\$11.35	\$10.35
Glue Sticks Pkt 6 for Mini Gun	TH-1991	\$3.95	\$3.45	\$3.15
Glue Sticks Pkt 50 for Mini Gun	TH-1994	\$9.95	\$8.75	\$7.75

Large Glue Gun - 100W

Great for quick and easy low stress repairs to timber, cardboard, paper and many household materials. It is fast, easy and simple to use with trigger controlled glue feed.

- Mains powered
- Requires 12mm diameter glue sticks (2 supplied)
- Note: For intermittent use only.
Not for production use

GLUE STICKS FOR LARGE GUN

Dimensions: 12mm diameter x 100mm long.

- Suits TH-1999 gun



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Large 100W Glue Gun	TH-1999	\$19.95	\$17.95	\$15.95
Glue Sticks Pkt 6	TH-1995	\$4.95	\$4.45	\$3.90
Glue Sticks Pkt 45 approx	TH-1996	\$17.95	\$15.95	\$14.35

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ENCLOSURES

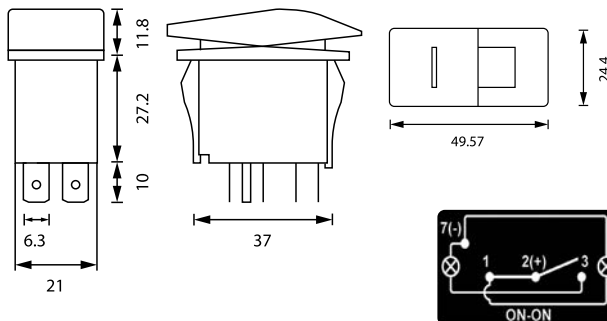
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CONTURA STYLE ROCKER SWITCHES

Individual "Contura" Style DC Rocker Switches

These are the superb looking rocker switches that you have seen in the cockpits of the 70-100ft luxury motor cruisers recently. They would look great in your 4WD, RV, Caravan or any other application as well. The base switch supplied (rated at 12V 20A, 24V 10A) comes with a double-LED illumination (low in OFF, high in the ON position), a standard rocker cover and a standard range of decals to customise the switch to your application. Typical decals are symbols for: windscreen wipers, horn, heater, etc; there are dozens of these decals included. Also available are a set of special laser-etched covers with the following graphic symbols to really create a professional finish. You need to buy the basic switch (in blue, white or red illumination) and then the custom cover (if required).

See our "Contura" Style USB Sockets on page 457



Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
12V 20A/24V 10A	SPDT White	SK-0910	\$12.95	\$11.35	\$10.35
12V 20A/24V 10A	SPDT Red	SK-0912	\$12.95	\$11.35	\$10.35
12V 20A/24V 10A	SPDT Blue	SK-0914	\$12.95	\$11.35	\$10.35
12V 20A/24V 10A	SPDT Amber	SK-0916	\$12.95	\$11.35	\$10.35



Laser-etched rockers	Cat.	Qty 1+	Qty 10+	Qty 25+
12V Power	SK-0920	\$2.95	\$2.60	\$2.30
Fridge	SK-0921	\$2.95	\$2.60	\$2.30
Aux Battery	SK-0922	\$2.95	\$2.60	\$2.30
Interior Lights	SK-0923	\$2.95	\$2.60	\$2.30
Spot Lights	SK-0924	\$2.95	\$2.60	\$2.30
Horn	SK-0925	\$2.95	\$2.60	\$2.30
Rear View Camera	SK-0926	\$2.95	\$2.60	\$2.30
Inverter	SK-0927	\$2.95	\$2.60	\$2.30
Driving Lights	SK-0928	\$2.95	\$2.60	\$2.30
Thermofan	SK-0929	\$2.95	\$2.60	\$2.30

Modular Rocker Switch Brackets

Compatible with our Contura style switches, these brackets use a clever modular design allows you to "stack" multiple rocker switches together into a single cutout. The end-cap piece works for either end, and you can put as many centre pieces in as you like. Also available in a single-switch mount. 100% interchangeable with the round-hole variant of these brackets - PS-2806/PS-2808 (See page 454).



	Cat.	Qty 1+	Qty 10+	Qty 50+
Single Mount	SK-0800	\$3.50	\$3.15	\$2.80
Modular End	SK-0802	\$3.50	\$3.15	\$2.80
Modular Centre	SK-0804	\$3.50	\$3.15	\$2.80

BUY IT ON THE WEB...

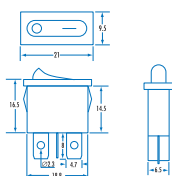
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ROCKER SWITCHES

SPST - Ultra Mini

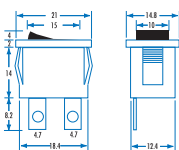
- Snap in fitting.
- SPST 250VAC 6A.
- Cutout size 6.5(W) x 19(H)mm.
- Black body, black actuator.
- QC tab termination 6.4mm (PT-4607)



▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A SPST	SK-0975	\$1.95	\$1.75	\$1.55

SPST - Mini

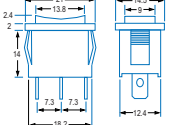
- Dimensions: 21 x 15mm
- Panel cut out size 13 x 19.5mm
- QC tab termination
- SPST 240V 6A
- Black actuator



▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 6A SPST	SK-0984	\$1.95	\$1.75	\$1.55

SPDT - Centre Off

- Latching
- Voltage: 250VAC
- Current: 6 Amp



▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A SPDT	SK-0991	\$4.95	\$4.45	\$3.90

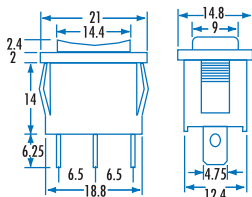
SPDT - Mini - Centre Off

SPRING RETURN

BOTH SIDES

Momentary contacts with spring return to centre on both sides.

- Mini QC tab termination 6.4mm (PT-4607)
- Contact arrangement SPDT N.O.



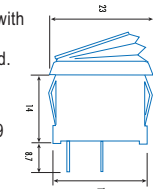
▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250V 6A SPDT	SK-0987	\$4.95	\$4.45	\$3.90

SPST IP56 Rated Mini Rocker Switch

SPST mini rocker switches with spade QC lugs. Sealed with a rubber boot and IP56 rated.

Two types available:

- Black: SK-0968
- Red (illuminated): SK-0969
- Cutout: 18.8 x 12.5mm

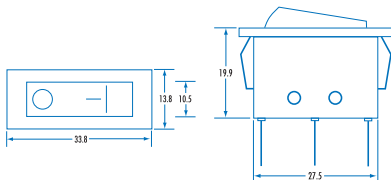


▲ Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	Black	SK-0968	\$5.75	\$4.95	\$4.60
12VDC 16A	Red - Illuminated	SK-0969	\$6.75	\$5.95	\$5.25

SPST - Illuminated

Black body with illuminated actuator. Ideal replacements for appliances.

- Snap in fitting.
- QC tab termination 6.8mm (PT-4507)
- Cutout: 33.8 x 13.8mm

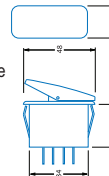


▲ Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 15A	Blue	SK-0976	\$3.50	\$3.15	\$2.75
240VAC 15A	Red	SK-0978	\$3.50	\$3.15	\$2.75
240VAC 15A	Green	SK-0979	\$3.50	\$3.15	\$2.75

SPDT IP65 Illuminated Centre Off Rocker Switch

IP65 rated, illuminated switch for automotive and marine applications. Illuminates one side red and one side green.

- On-Off-On
- Rating: 14VDC, 21A
- Cutout size: 34 x 21mm

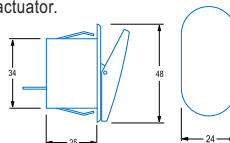


▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
14VDC 21A SPDT	SK-0999	\$12.95	\$11.35	\$10.35

SPST Illuminated IP56 Rated Rocker Switch

IP56 rated, large rocker actuator.

- SPST
- Illuminated red
- Rated for 12VDC 20A
- Mounting hole 20.5 x 37mm



▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 20A Red Illuminated	SK-0997	\$12.95	\$11.35	\$10.35

Inline Low Voltage Switch

Simply connect your plug pack adaptor into this handy in-line switch to provide quick and easy on/off control. Much easier than unplugging the connector or reaching for the power point when you want to switch your device on or off. Fitted with 2.1mm DC plug & socket and rated at 24VDC at 2 amps.

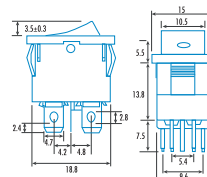


▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC 2A	SK-0998	\$7.95	\$6.95	\$6.25

DPST - Mini - Neon Illuminated

- 240VAC
- Illuminated actuator
- Solder terminals
- QC tab termination 6.4mm (PT-4607)

As used in our Powerboards

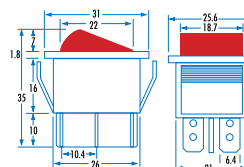


▲ Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 10A DPST	Red	SK-0995	\$4.95	\$4.45	\$3.90

DPDT - Large - Neon Illuminated

Mains Illuminated. DPDT 240VAC 15 amp.

- Black body, available in red or green illumination.
- Spade lug connections.
- Cutout 27 x 22mm.
- QC tab termination 6.8mm (PT-4507)

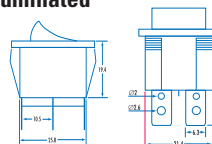


▲ Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 15A DPDT	Red	SK-0982	\$4.95	\$4.45	\$3.90
240VAC 15A DPDT	Green	SK-0983	\$4.95	\$4.45	\$3.90

DPDT - Large - Non Illuminated

DPDT switch with black body and black actuator.

- QC tab termination
- 240VAC 16A.
- Snap in fitting.

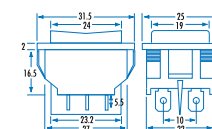


▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 16A	SK-0981	\$3.95	\$3.45	\$3.15

DPDT - Large - Centre/Off

Spring Return Both Sides, Momentary contacts with spring returns to centre on both sides. These are commonly used for car power antennas and power windows.

- Rated at 10A 250VAC.
- QC tab termination 6.4mm (PT-4607)



▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SK-0980	\$7.95	\$6.95	\$6.25

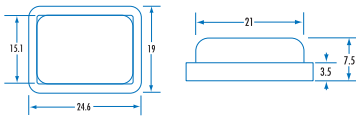
ROCKER SWITCHES (CONTINUED)

Waterproof Caps for Rocker Switches

Push-on, clear plastic caps to suit rocker switches.

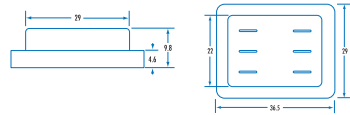
SUITS MINI SWITCHES

Suits switches SK-0984, SK-0985 and SK-0987.



SUITS LARGE ROCKER SWITCHES

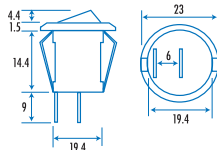
Suits switches SK-0980, SK-0981, SK-0982 and SK-0983.



▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
Suits Larger Rocker Switches	SK-0972	\$1.95	\$1.75	\$1.55
Suits Mini Rocker Switches	SK-0970	\$1.40	\$1.25	\$1.10

SPST - Round Actuator

- Snap fits into a 20mm round hole
- 10 amps @ 250VAC
- Black body with black actuator
- QC tab termination 6.4mm (PT-4607)

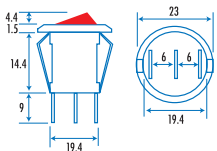


▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SK-0960	\$2.25	\$1.95	\$1.80

SPST - Round Actuator

Illuminated Red

- Snap fits into a 20mm round hole
- 6A @ 250VAC
- Black body with red neon actuator
- QC tab termination 6.4mm (PT-4607)



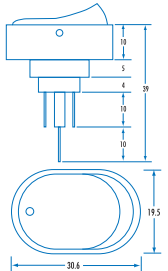
▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SK-0962	\$2.95	\$2.60	\$2.30

SPST - Rocker Actuator

LED Illuminated - Red

This is a classy switch. It is a rocker, but only needs a round 12mm hole (with 1mm flat). It is SPST and can handle a massive 30 amps at 12VDC. There is an LED in the actuator which lights from a 9 - 12V source.

- QC tab termination 6.8mm (PT-4507)



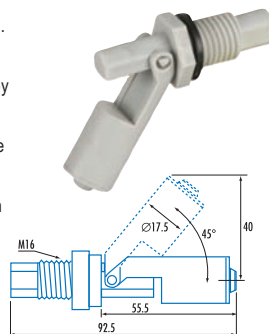
▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 30A	SK-0955	\$4.95	\$4.45	\$3.90

FLOAT SWITCHES

Float Switch

VERTICAL OR HORIZONTAL MOUNT NO or NC. Ideal for use in conjunction with solenoid valves, water pumps, etc., this float switch can be made NO or NC (Normally Open or Normally Closed) by the orientation of the float. Horizontally mounted so the float falls, when the fluid level rises it will switch ON at maximum float height. Mounting the switch so the float rises upwards when the fluid level rises above switch height it will switch OFF. Vertical mounting, with the float down, will switch OFF at a high fluid level. Widely used in marine, automobile, industrial, agricultural fluid level sensing applications.

- 560mm wire leads
- 92.5(L) x 18(D)mm x M16
- Float Rise height: 40mm from centreline

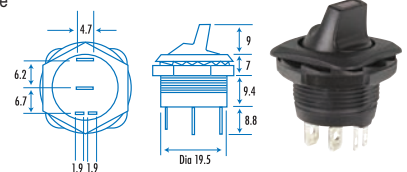


▲	Cat.	Qty 1+	Qty 10+	Qty 25+
NO or NC	SF-0920	\$19.95	\$17.95	\$15.95

SPST - Paddle

LED Illuminated red paddle type actuator with built in red LED

- Mounts easy in a 20mm hole
- 6A @ 250VAC
- LED requires 12V @ 20mA
- Black body
- QC tab termination 6.8mm (PT-4507)
- Solder tabs for LED

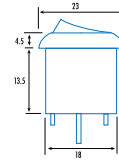


▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SK-0964	\$4.95	\$4.45	\$3.90

DPDT Round Actuator - Red

This rocker mounts in a round 18mm hole.

- DPDT
- 6 amps @ 250VAC
- Black body, red actuator
- Solder pins
- 18mm mounting hole

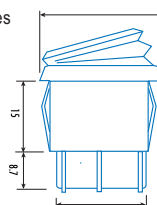


▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A	SK-0994	\$4.95	\$4.45	\$3.90

DPDT - Round Actuator - IP65

DPDT round rocker switches with mini spade QC lugs. Sealed with a rubber boot and IP65 rated.

- 20mm mounting hole



▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A Black	SK-0966	\$6.95	\$6.25	\$5.50
250VAC 6A Red - Illuminated	SK-0967	\$7.95	\$6.95	\$6.25

SHOW US YOUR BUILD COMPETITION

Lee, who shops at our Jaycar Launceston store built:

I have built a R2 astromech called R2J9. She visits events and hospitals to entertain kids big and little. The main drive motors for the wheels are 12V DC reversible gearhead motors (YG-2738). The same motor is used to control the movement of the dome. Also used are LED flashers for some dome lights.



Top Mounting Float Switch (Level Detector)

Ideal to control tank filling systems this vertical movement float switch fits quickly to the lid or top cover of a tank or other container. A mere 20mm travel distance for the float will trigger the switch ensuring you leave an air gap and don't overflow the vessel. Contacts are closed when the float is out of liquid and open when the float is elevated.

- Dimensions: 70(L) x 23(Dia)mm
- Contact Rating: 200V 500mA
- Mounting Diameter: 8mm



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SF-0922	\$17.95	\$15.95	\$14.35

FIND OUT MORE IN STORE

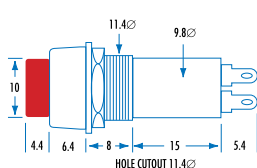
Our staff offer friendly and helpful service.

PUSHBUTTON SWITCHES

SPST Square

Rated 3A 250V AC.

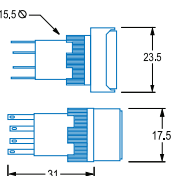
• Mounting hole 12mm



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Push-on Momentary SPST Red	SP-0716	\$1.95	\$1.75	\$1.55
Push-on/Push off SPST Black Latching	SP-0718	\$1.95	\$1.75	\$1.55
Push-Off (N/C) SPST Momentary - Red	SP-0717	\$1.95	\$1.75	\$1.55

DPDT Illuminated - IP65

- Available in momentary or on/off action
- Rated for 250VAC 5A
- 12VDC LED illumination
- Mounting hole 15mm
- IP65 rated
- Contact arrangement DPDT N.O./N.C.

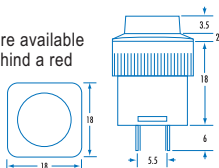


▲ Rating	Action	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 5A	Momentary	Red	SP-0741	\$11.95	\$10.45	\$9.45
250VAC 5A	Push On Push Off Red	Red	SP-0745	\$13.95	\$12.45	\$10.95
250VAC 5A	Momentary	Green	SP-0747	\$11.95	\$10.45	\$9.45
250VAC 5A	Push On Push Off Green	Green	SP-0749	\$13.95	\$12.45	\$10.95

SPST LED Illuminated

These short bodied pushbuttons are available in 2 styles. Both have red LEDs behind a red diffused actuator.

- Rated at 1.5A 250VAC.
- LED needs 2VDC @ 20mA.

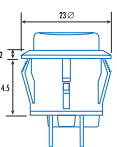


▲	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 1.5A Momentary	SP-0706	\$5.95	\$5.25	\$4.75
250VAC 1.5A Push On Push Off	SP-0704	\$5.95	\$5.25	\$4.75

DPDT Round - IP56

IP56 rated round 'pushbutton switches.

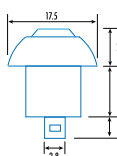
- QC spade lugs.
- Push on/push off
- Mounting hole: 20mm dia



▲ Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A DPST	Black	SP-0743	\$5.95	\$5.25	\$4.75
250VAC 6A DPST	Red Illuminated	SP-0751	\$6.95	\$6.25	\$5.50

SPST Dome - IP67

- IP67 rated
- Momentary action
- Mounting hole 12mm
- Contact arrangement SPST N.O.



▲ Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
50V 100mA SPST	Black	SP-0656	\$4.95	\$4.45	\$3.90
50V 100mA SPST	Red	SP-0657	\$4.95	\$4.45	\$3.90

BELL PUSHBUTTONS

SPST Illuminated Bell Pushbutton

This door bell button has a small globe mounted behind which illuminates the pushbutton and an area where you can place your name or street number. Supplied with 12V globe, which also works on lower voltage.

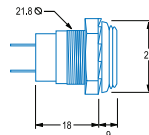
- Contact Arrangement SPST N.O.
- Globe in parallel with contacts



▲ Type	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Pushbutton	SPST	SP-0782	\$7.95	\$6.95	\$6.25
Spare Globe	SPST	SL-2720	\$1.95	\$1.75	\$1.55

SPST Round - IP65

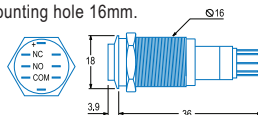
- Available in momentary or on/off action
- Rated for 14V 10A
- Mounting hole 22mm
- Contact arrangement SPST N.O.
- IP65 rated



▲ Rating	Colour	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12V 10A	Black	Momentary	SP-0756	\$6.95	\$6.25	\$5.50
12V 10A	Red	Momentary Illuminated	SP-0757	\$8.95	\$7.95	\$6.95
12V 10A	Black	Push On Push Off	SP-0758	\$6.95	\$6.25	\$5.50
12V 10A	Red	Push On Push Off Illum	SP-0759	\$8.95	\$7.95	\$6.95

DPDT Illuminated - IP67

- DPDT (N.O./N.C.), DPDT, on-off or momentary
- Rated for 250VAC@3A
- 12VDC LED illumination
- IP67 rated
- Mounting hole 16mm.



▲ Rating	Colour	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 3A	Red	on - off	SP-0791	\$19.95	\$17.95	\$15.95
250VAC 3A	Green	on - off	SP-0792	\$19.95	\$17.95	\$15.95
250VAC 3A	Blue	on - off	SP-0793	\$19.95	\$17.95	\$15.95
250VAC 3A	Red	Momentary	SP-0796	\$17.95	\$16.15	\$14.35
250VAC 3A	Green	Momentary	SP-0797	\$17.95	\$16.15	\$14.35
250VAC 3A	Blue	Momentary	SP-0798	\$17.95	\$16.15	\$14.35

DPDT DUAL COLOUR ILLUMINATED - IP67

Similar to the illuminated switches shown above, but illuminate red or green depending on the on-off state.

- DPDT (N.O./N.C.), DPDT, on-off or momentary
- Rated for 250VAC@3A
- 12VDC LED illumination
- IP67 rated
- Mounting hole 16mm.



▲ Action	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
Momentary	(Red to Green)	SP-0787	\$19.95	\$17.95	\$15.95
On-off	(Red to Green)	SP-0788	\$21.95	\$19.75	\$17.55

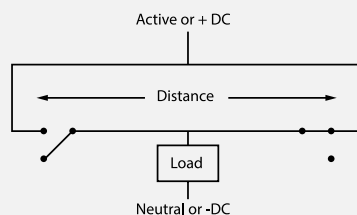
ALTERNATIVE SWITCHING

TECH TALK



This circuit enables you to turn a load on or off (typically lighting) from either switch which may be a long way apart. The switches must be single pole, double throw types, minimum (SPDT).

Note! Only a qualified electrician can perform this wiring for 240V. You can do it yourself for low AC or DC voltage wiring.



LAMP STYLE PUSHBUTTON SWITCH

240V 2A Bed Lamp Style Pushbutton

Universal pushbutton switch suitable for replacing switches in some equipment. Also commonly used in small electronics projects such as school science experiments due to ease of connection using screw terminals

- 240V 2A rating
- Panel mounting hole: 10mm
- Maximum panel thickness: 2.5mm
- Pushbutton stem: 7(L) x 5(Dia.)mm
- Dimensions: 25(H) x 24(L) x 12(W)mm



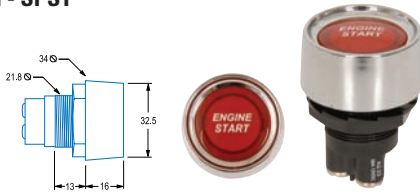
NEW
2017

▲ Type	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Pushbutton	SPST	SP-0735	\$1.95	\$1.75	\$1.55

IGNITION SWITCHES

Engine Start Switch - SPST

- Keyless engine start for track or street use
- Illuminated momentary action pushbutton
- Rated for 12VDC 50A
- Mounting hole 22mm
- Contact arrangement SPST N.O.

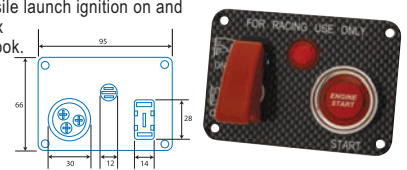


▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50A SPST	SP-0773	\$19.95	\$17.95	\$15.95

Racing Ignition Switch Panel - SPST

Complete ignition switch panel ready to install in your car. Push button engine start, missile launch ignition on and indicator light. Finished in faux carbon fibre to complete the look.

- Max depth 38mm
- Contact arrangement SPST N.O. (both switches)
- 95(W) x 66(H)mm



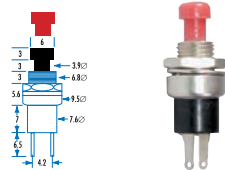
▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 20A SPST	SP-0774	\$39.95	\$35.95	\$31.95

MOMENTARY SWITCHES

SPST - Miniature

125VAC 1 amp rating.

- Momentary action.
- Push-on

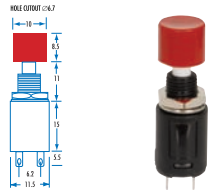


▲ Rating	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 1A	Red	Mom	SP-0710	\$1.65	\$1.45	\$1.30
125VAC 1A	Black	Mom	SP-0711	\$1.65	\$1.45	\$1.30

SPST

SPST momentary push on switch

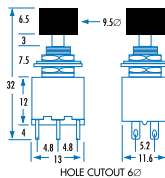
- Rated @ 1.5A 250VAC.
- Actuator diameter 10mm.
- Cutout 7mm.
- Will panel mount on 1/2" centres.



▲ Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 1.5A	SPST	SP-0702	\$3.95	\$3.45	\$3.15

DPDT

- Rated 3A 125VAC
- 6mm mounting hole.
- Momentary Action DPDT
- Black Actuator.
- The quality of the switch can be felt when actuated.

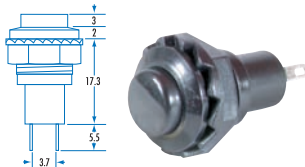


▲ Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 3A	DPDT	SP-0714	\$7.95	\$6.95	\$6.25

SPST Panel Mount

Very attractive small round momentary push on switch, with black body and black actuator, rated @ 1.5A 250VAC.

- Contact Arrangement SPST N.O.
- Cutout is 12.5mm.
- Solid construction



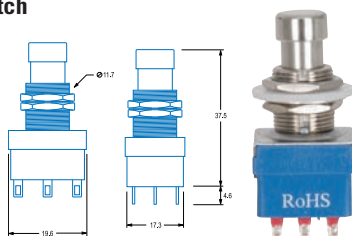
▲ Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 1.5A	SPST	SP-0700	\$3.95	\$3.45	\$3.15

FOOT SWITCHES

3PDT Heavy Duty Foot Switch

Being 3 pole means you can wire your stompbox projects to be true bypass. It also has a low profile body so it can be accommodated in shallow enclosures and it has a solid, positive click on/off action. Heavy duty for the rough and tumble world of rock n' roll.

- Push on - push off
- 250VAC 2A rated
- Hole size: 12mm

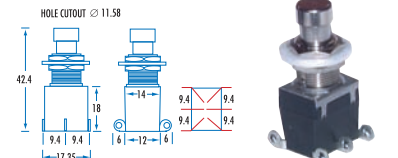


▲ Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A	3PDT	SP-0766	\$11.95	\$10.70	\$9.50

DPDT Heavy Duty Foot Switch

The alternative action switch (push on, push off).

- Contact rating with resistive load 2A@250VAC
- Contact resistance <0.08Ω



▲ Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A	DPDT	SP-0764	\$7.95	\$6.95	\$6.25

Foot Switch

Momentary action and can be wired to be either push-on or push-off. Rated at 250V 10 amp. The switch has a positive switch feel and an audible "click" when pressed.

- Switch size 80(W) x 80(L) x 30(D)mm
- Colour is grey, cable is 850mm long



▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SP-0760	\$24.95	\$22.35	\$19.70

TOGGLE SWITCHES

SOANAR

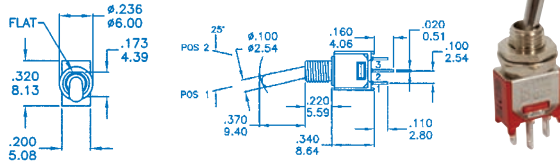


GENERAL SPECIFICATIONS

	SUB MINIATURE	MINIATURE
Electrical life (make - and - break cycles at full load)	30,000	40,000
Contact resistance (@2 - 4VDC @ 100mA)	20mΩ	10mΩ
Insulation resistance (any contact to body)	1,000mΩ	1,000mΩ
Dielectric strength (@ sea level)	1,000VRMS	1,000VRMS
Contact rating (with resistive load)	1A @ 250VAC	2A @ 250VAC
Contact rating (with resistive load)	3A @ 28VDC	5A @ 28VDC

Sub-Miniature

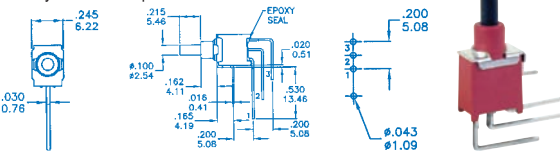
SPDT - SOLDER TAG - THREADED BUSH



▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST-0300	\$2.95	\$2.60	\$2.30

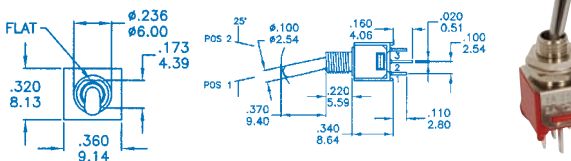
SPDT - HORIZONTAL PCB MOUNT (PUSHBUTTON)

Momentary on when depressed.



▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on-mom)	SP-0380	\$3.95	\$3.45	\$3.15

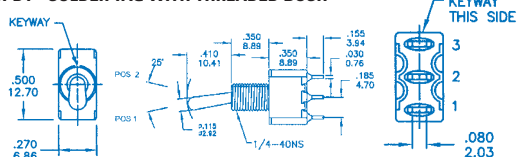
DPDT - SOLDER TAG - THREADED BUSH



▲ Brackets indicate switch position Cat.	Qty 1+	Qty 10+	Qty 25+
DPDT (on - on) ST-0310	\$2.95	\$2.60	\$2.30

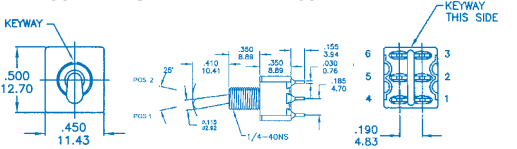
Miniature

SPDT - SOLDER TAG WITH THREADED BUSH



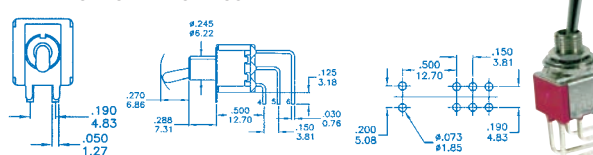
▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST-0335	\$2.95	\$2.60	\$2.30
SPDT Centre Off (on-off-on)	ST-0336	\$3.45	\$3.05	\$2.75

DPDT - SOLDER TAG WITH THREADED BUSH



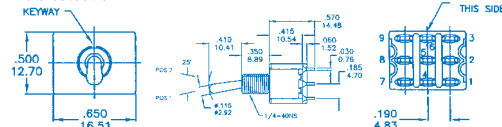
▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
DPDT (on - on)	ST-0355	\$3.75	\$3.30	\$2.95
DPDT Centre Off (on - off - on)	ST-0356	\$4.50	\$3.95	\$3.60
DPDT Mom Centre Off (mom-off-mom)	ST-0358	\$4.95	\$4.45	\$3.90
DPDT Mom (on - mom)	ST-0357	\$4.50	\$3.95	\$3.60

DPDT - HORIZONTAL PCB MOUNT

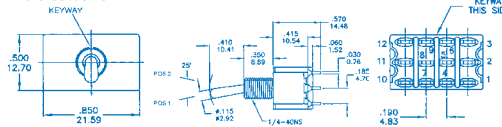


▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
DPDT Threaded Bush (on - on)	ST-0365	\$4.95	\$4.45	\$3.90

Miniature (continued)

3PDT MINI
Hole cutout 6mm

▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
3PDT (on - on)	ST-0505	\$7.95	\$6.95	\$6.25

4PDT MINI
Hole cutout 6mm

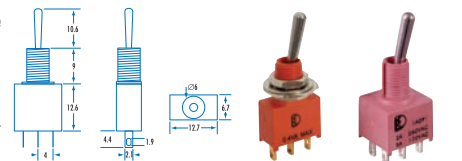
▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
4PDT (on - on)	ST-0506	\$8.95	\$7.95	\$6.95

Sealed Miniature

Ideal for use in wet or moist areas.

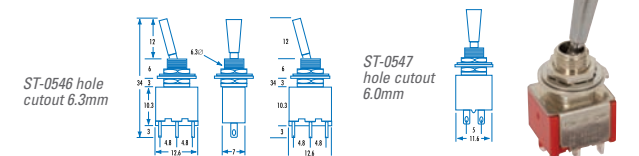
Rated at 2A, 250VAC.

Splash post IP54 rated.



▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST-0554	\$6.95	\$6.25	\$5.50
DPDT (on - on)	ST-0555	\$7.95	\$6.95	\$6.25

Miniature Flattened Actuator



▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
SPDT (on - on)	ST-0546	\$5.50	\$4.90	\$4.30
DPDT (on - on)	ST-0547	\$5.95	\$5.25	\$4.75

Rubber Boot with Seal to Suit Mini Toggles

This waterproof hood replaces the standard mounting nut and has an integrated 'O' ring to seal your equipment from outside moisture.

- Suits our mini toggle switches
- True waterproof seal



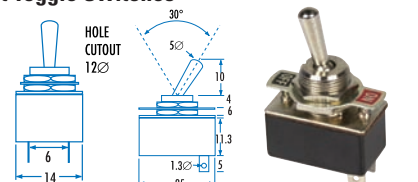
▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ST-0594	\$1.85	\$1.65	\$1.45

Standard Panel Mount Toggle Switches

SPST

Body size 26 x 14mm, clearance 20.5mm,

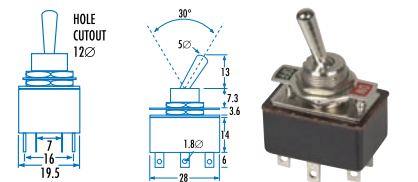
- Mounting hole 12mm.
- Rated 2A 250V.
- Solder terminals



▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A (on - off)	ST-0570	\$2.65	\$2.30	\$2.07

DPDT

- Body size 29.5 x 18mm
- Clearance 23mm
- Mounting hole 12mm
- Rated 3A 250V
- Solder terminals



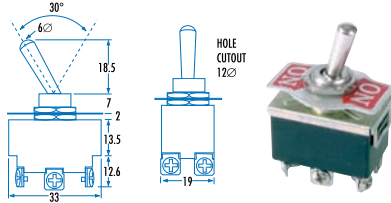
▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 3A (on - off)	ST-0572	\$2.95	\$2.60	\$2.30

TOGGLE SWITCHES (CONTINUED)

DPDT - Extra Heavy Duty

Rated at 6A 250VAC, this switch will handle mains power switching.

- Screw terminals
- 12mm mounting hole.

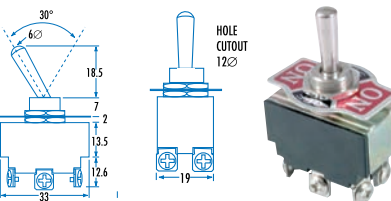


▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 6A (on - on) DPDT	ST-0575	\$4.95	\$4.45	\$3.90

DPDT - Heavy Duty Centre Off

Huge 10A 125V rating, chrome toggle with on/off indicator plate.

- DPDT centre off.
- Body size 35 x 20mm, clearance 26mm, mounting hole 12mm.
- Screw terminals. Same physical size as ST-0575 above.

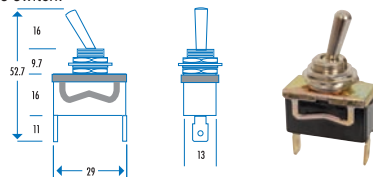


▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 10A (on - off - on) DPDT	ST-0576	\$4.95	\$4.45	\$3.90

SPST

Ideal for any high current 12VDC switching application. Our ST-0578 Missile Switch Cover is perfectly suited to this switch.

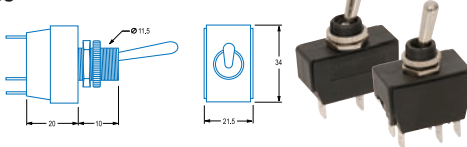
- Body size 29.5 x 17mm
- Mounting hole 12mm
- Rated 20A 12VDC



▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 20A Momentary (off - mom)	ST-0577	\$6.50	\$5.75	\$4.95
12VDC 20A Toggle (on - off)	ST-0579	\$5.95	\$5.25	\$4.75

Heavy Duty Toggle

- Mounting hole 11.5mm
- UL61058 rating: 12(4)A 250VAC
- ST-0586 is Centre-Off.



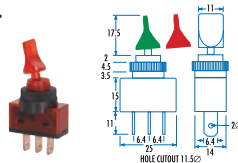
▲ 12VDC	277VAC	Cat.	Qty 1+	Qty 10+	Qty 25+	
20A	20A	SPST	ST-0581	\$4.95	\$4.45	\$3.90
20A	20A	SPDT	ST-0583	\$5.45	\$4.90	\$4.30
20A	16A	DPDT	ST-0585	\$7.95	\$6.95	\$6.25
20A	16A	DPDT - C/Off	ST-0586	\$7.95	\$6.95	\$6.25

12V SPST Illuminated Duckbill Actuator

Actuator illuminates when switch is on.

Two colours available.

- Rated at 12VDC 10A SPST.
- QC tab termination 6.8mm (PT-4507)

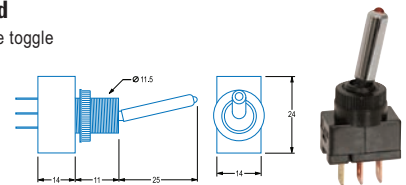


▲ Brackets indicate switch position	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 10A Red (on - off) SPST	ST-0580	\$3.95	\$3.45	\$3.15
12VDC 10A Green (on - off) SPST	ST-0582	\$3.95	\$3.45	\$3.15

12V SPST Illuminated

Illuminated by an LED in the toggle for easy identification.

- Illuminated red
- Rated for 12VDC 20A
- Mounting hole 11.5mm

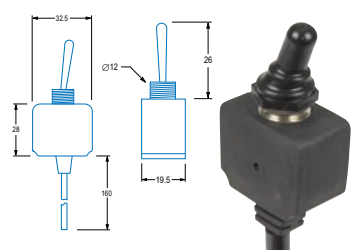


▲ 12VDC 20A	SPST	Cat.	Qty 1+	Qty 10+	Qty 25+
		ST-0587	\$5.95	\$5.35	\$4.75

SPST 24V 15A Sealed Toggle

This large toggle switch is specially designed for marine conditions. A weatherproof rubber boot covers the actuator, and the switch mechanism is encapsulated in rubber. For this reason, 150mm fly leads are attached instead of the usual terminals. Not only limited to marine use, it can also be used as an ultra-durable switch in many applications.

- Ideal for marine or automotive use
- Max volt rating: 24V @ 15 amps



▲ 24VDC 15A	SPST	Cat.	Qty 1+	Qty 10+	Qty 25+
		ST-0574	\$12.95	\$11.35	\$10.35

Missile Switch Protective Cover

Military style missile switch cover featuring a heavy duty hinged, spring return protective cover. Covers turn switch off when snapped down. Fit any toggle switch with a 12mm mounting hole and appropriate length actuator.

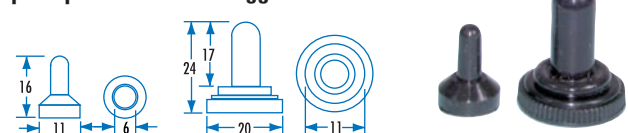
SWITCH (Cat. ST-0579) SHOWN MOUNTED IN MISSILE COVER (switch not included).

WHEN COVER IS DOWN, ACTUATOR CANNOT MOVE



▲ Red	Cat.	Qty 1+	Qty 10+	Qty 25+
	ST-0578	\$6.95	\$6.25	\$5.50
Carbon Fibre Style	ST-0584	\$9.95	\$8.95	\$7.95

Splashproof Hoods For Toggle Switches



These hoods simply screw over the toggle switch to deter ingress of water.

MINIATURE - INCLUDES NUTS FOR BOTH MINI & ULTRA-MINI TOGGLE SWITCHES.

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ST-0590	\$1.85	\$1.65	\$1.45

STANDARD (LARGE)

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ST-0592	\$2.85	\$2.53	\$2.23

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here!
Check our website for over 3,500 pages of data!



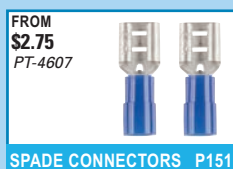
RELATED PRODUCTS



NIBBLING TOOL P212



LIQUID TAPE P184



SPADE CONNECTORS P151



CONTACT CLEANER P182



CARBON GREASE P345

TAMPER SWITCHES

Alarm Tamper Style

This switch mounts behind an alarm module, bell or other item. If the device is tampered with or pulled from the wall, the alarm will be triggered. SPST. 18mm mounting hole. Contacts close when button depressed.



▲	Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
SPST	Each	LA-5066	\$2.95	\$2.60	\$2.30

Tamper (Pin) Style - 2 Pack

Low cost spring loaded switch, simply make to frame (or earth) when pin is released i.e. by operating car or cabinet door, etc. 57mm overall, 12mm pin travel.

• Bullet connector termination



▲	Rating	Cat.	Qty 1+	Qty 4+	Qty 8+
Pack of 2		LE-8775	\$5.95	\$5.25	\$4.75

Van Sliding Door Style

Double action sliding door switch, primarily designed for van doors and tailgates. Supplied with rubber mounting plates, screws, template stickers and installation instructions.

• Contacts are rated at a massive 20A @ 12V.



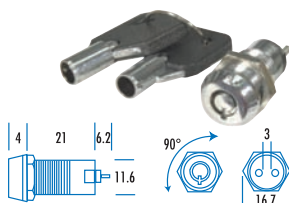
▲	Rating	Cat.	Qty 1+	Qty 2+	Qty 4+
12VDC 20A	Each	LE-8779	\$18.95	\$16.95	\$14.95

BARREL LOCKS

SPST Barrel Key, Mini

Chrome plated SPST mini key switch features spring return momentary operation and is supplied with two mini barrel keys. Requires 28mm mounting depth and a panel cutout of 12mm.

• Contact rating: 0.5A@250VAC / 1A@125VAC

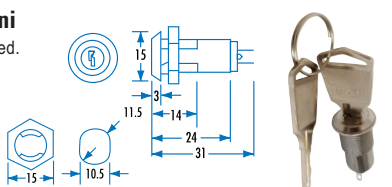


▲	Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 500mA	SPST	SM-1034	\$9.95	\$8.75	\$7.75

SPST Standard Key, Mini

Rated at 3 amps. 2 keys supplied.

• Panel cutout 12mm.
• Mounting depth 29mm.
• Contact rating: 1A 125VAC / 0.5A @250VAC.



▲	Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 1A	SPST	SM-1027	\$9.95	\$8.75	\$7.75

MERCURY & REED SWITCHES

SPST Mini Mercury

With a robust plastic housing, this switch has a mounting tab - you can screw it down - or use the self adhesive strip supplied. It has a 30cm lead. Switch contacts are open when the device is mounted horizontally. Dimensions: 33(L) x 8(W) x 8.5(D)mm



▲	Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
SPST		SM-1044	\$4.45	\$3.95	\$3.45

Mercury Switch SPST

Glass encapsulated

• 125VAC 3 amp AC. SPST.
• Size glass 18(L)mm x 5.5mm dia.



▲	Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC 3A	SPST	SM-1035	\$2.75	\$2.45	\$2.15

NC Reed Switch*

Ideal for burglar alarms. Coin not included for size purposes only

• Total length: 44mm
• Contact rating: 10W
• Switching current: 0.5A (max)
• Normally open, but closed when near magnet



▲	Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
200VDC 500mA		SM-1002	\$1.95	\$1.75	\$1.55

Metal Tamper (Pin) Style - 2 Pack

Ideal for car bonnets, this heavy duty pin switch is nickel plated for protection from corrosion. The plunger is plastic and can be cut to suit the required length/depth. Supplied with locking nuts and star washer. The bezel's mounting depth is also adjustable. Termination is via a 6.4mm spade lug.



• Length (main body): 38mm
• Shaft diameter: 7.75mm
• Locking nut size: 12mm

• Including plug & lug: 70mm
• Fascia nut size: 11mm
• Travel (max): 13.5mm.

▲	Rating	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2		LE-8776	\$7.95	\$6.95	\$6.25

Metal Fascia Inset Pin Switch - 2 Pack

Inset pin switch with plated metal fascia. Suitable for many cars as a replacement door switch. The sturdy plunger can be cut to required length. Termination via right angle 6.4mm spade lug.



• Fascia: 34.5 x 16.5mm
• Overall depth: 51mm
• Depth behind fascia: 15mm (not inc lug & pin)

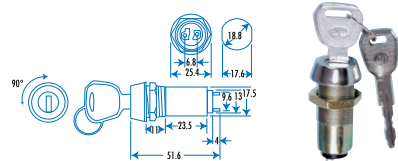
• Pin: 27(L) x 8(dia)mm
• Travel (max): 8mm

▲	Rating	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2		LE-8777	\$7.95	\$6.95	\$6.25

SPST Standard Size

Solid barrel type.

• 19mm mounting hole.
• SPST action.
• Supplied with 2 keys.
• Rated @ 250V 2A.

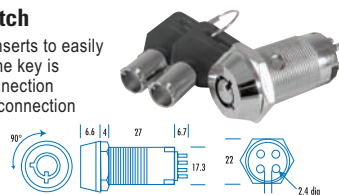


▲	Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A		SM-1030	\$12.95	\$11.35	\$10.35
Random Keys					
Keyed Alike	Type A	SM-1029	\$12.95	\$11.35	\$10.35
Keyed Alike	Type B	SM-1031	\$12.95	\$11.35	\$10.35

DPST Change-Over Key Switch

Uses tubular keys with black plastic inserts to easily identify them. It has 2 positions and the key is removable from both. There are 4 connection terminals, is a change-over type - ie. connection DPST.

• Contact rating: 2A, 250VAC.



▲	Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 2A		SM-1032	\$13.95	\$12.35	\$10.95

SHOW US YOUR BUILD COMPETITION

Aidan, who shops at our Jaycar Melbourne store built:

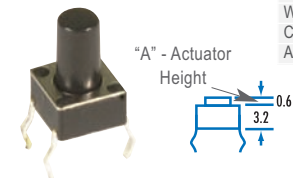
I built an arcade machine. I tricked it up with USB power, a Sony DAB CD player, LED string lighting on the sides, a marquee that lights up. This is so if you need to charge your phone you can, if you want to play some tunes when playing you can. Its gets live with a missile switch...



TACTILE SWITCHES

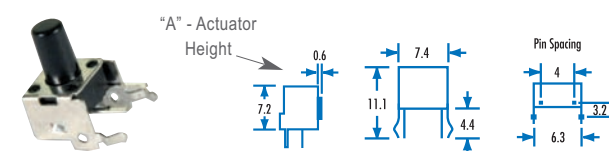
SPST Micro

VERTICAL MOUNT



SPECIFICATIONS	ALL MODELS
Rating	12VDC 50mA
Operating Temp	-20~70°C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ Min. at 100VDC
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	SPST N.O.
Action	Momentary

RIGHT-ANGLE VERSION



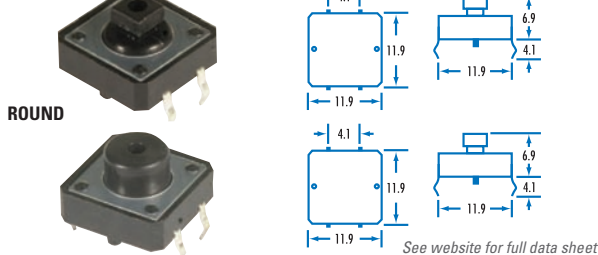
▲ Vertical Mount	Actuator	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	0.7mm	SP-0600	\$0.95	\$0.85	\$0.75
12VDC 50mA	1.4mm	SP-0601	\$0.95	\$0.85	\$0.75
12VDC 50mA	3.5mm	SP-0602	\$0.95	\$0.85	\$0.75
12VDC 50mA	6.0mm	SP-0603	\$0.95	\$0.85	\$0.75
Right Angle					
12VDC 50mA	0.7mm	SP-0604	\$1.00	\$0.90	\$0.80
12VDC 50mA	1.4mm	SP-0605	\$1.00	\$0.90	\$0.80
12VDC 50mA	3.5mm	SP-0606	\$1.00	\$0.90	\$0.80
12VDC 50mA	6.0mm	SP-0607	\$1.00	\$0.90	\$0.80

SPST PCB Mount

SPECIFICATIONS	BOTH MODELS	Withstand Voltage:
Rating	12VDC 50mA	250VAC for 1 minute
Operating Temperature	20~70°C	Contact Arrangement: SPST N.O.
Contact Resistance	100mΩ Max.	Momentary action
Insulation Resistance	100MΩ Min. at 100VDC	

SQUARE

ROUND



▲ Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Square	SP-0608	\$1.25	\$1.10	\$0.97
12VDC 50mA	Round	SP-0609	\$1.25	\$1.10	\$0.97

SPST PCB - 2 Pin

SPECIFICATIONS	SP-0611
Rating	12VDC 50mA
Operating Temperature	-16~60°C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	2 pin SPST N.O.
Action	Momentary
Size	6 x 3.5 x 3.5mm

▲ Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	PCB Mount	SP-0611	\$0.95	\$0.85	\$0.75

SPST SMD - Pack of 10

This switch is similar to SP-0600 but surface mount.

SPECIFICATIONS	SP-0610
Size	6x6mm
Height	3.85mm
Contact Arrangement	SPST N.O.
Contact Rating	50mA, 12VDC
Contact Resistance	100mΩ max

▲ Rating	Action	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Pkt 10	SP-0610	\$13.95	\$12.35	\$10.95

SPST PCB Mount Snap Action - Round



SPST PCB Mount with LED

▲ Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
35VDC 10mA	Red	SP-0720	\$1.45	\$1.30	\$1.15
35VDC 10mA	Black	SP-0721	\$1.45	\$1.30	\$1.15
35VDC 10mA	Yellow	SP-0722	\$1.45	\$1.30	\$1.15
35VDC 10mA	White	SP-0723	\$1.45	\$1.30	\$1.15
35VDC 10mA	Green	SP-0724	\$1.45	\$1.30	\$1.15

SPST PCB Mount with LED

SPECIFICATIONS	ALL MODELS
Rating	12VDC 50mA
Operating Temperature	-50 ~ 70° C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ min at 100VDC
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	SPST N.O.
Action	Momentary
LED Power Supply	3.5-4V DC @ 25mA

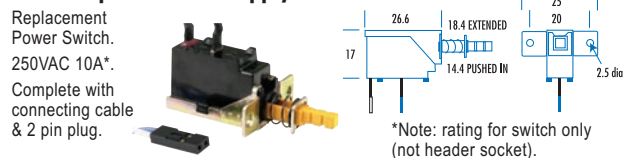
▲ Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Red	SP-0612	\$4.45	\$3.95	\$3.45
12VDC 50mA	Green	SP-0613	\$4.45	\$3.95	\$3.45
12VDC 50mA	Blue	SP-0614	\$4.45	\$3.95	\$3.45

SPST PCB Mount - Vertical with LED

SPECIFICATIONS	BOTH MODELS
Rating	12VDC 50mA
Operating Temperature	-50 ~ 70° C
Contact Resistance	100mΩ Max.
Insulation Resistance	100MΩ min at 100VDC
Withstand Voltage	250VAC for 1 minute
Contact Arrangement	SPST N.O.
Action	Momentary
LED Power Supply	3.5-4V DC @ 25mA

▲ Rating	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC 50mA	Red	SP-0620	\$3.95	\$3.45	\$3.15
12VDC 50mA	Green	SP-0621	\$3.95	\$3.45	\$3.15
12VDC 50mA	Blue	SP-0622	\$3.95	\$3.45	\$3.15

ATX Computer Power Supply Switch



▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
250VAC 10A	SP-0748	\$14.95	\$13.35	\$11.70

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If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type & quantity of product purchased. Excludes Kits & Books.

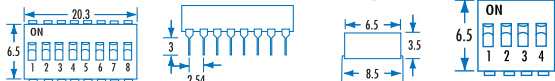
*ABN will be required - see our website or Store Manager for further details.



DIP SWITCHES

DIP Switches

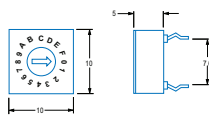
- End stackable
- Moulded 0.3" IC packing outline for automatic insertion
- Smaller sized
- Twin contact design
- Gold plated contact & tin plated terminals.
- Switching: 25mA 24VDC
- Non-Switching: 100mA 50VDC
- Contact Resistance: Initial 50mΩ max
- Dielectric Strength: 500VDC min 1 minute



▲ Type	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
2 Way	4 pin DIP	SM-1012	\$1.55	\$1.35	\$1.20
3 Way	6 pin DIP	SM-1013	\$1.75	\$1.55	\$1.40
4 Way	8 pin DIP (low profile)	SM-1020	\$1.95	\$1.75	\$1.55
6 Way	12 pin DIP	SM-1015	\$2.15	\$1.90	\$1.70
8 Way	16 pin DIP (low profile)	SM-1024	\$2.40	\$2.15	\$1.90
10 Way	20 pin DIP	SM-1017	\$2.65	\$2.30	\$2.07
12 Way	24 pin DIP	SM-1018	\$2.90	\$2.60	\$2.30

Binary Coded DIL Rotary Switches

These tiny switches are designed for PCB use. These pins are moulded in and fully sealed. The body is moulded in UL 94V-0 flame-retardant plastic.



SPECIFICATIONS	BOTH MODELS
Contact rating	Switching 25mA@24VDC
Non Switching	100mA @50VDC (dry contact switching)
Contact Resistance	100mΩ max
Insulation Resistance	1,000MΩ (min) at 100VDC
Dielectric Strength	250V AC for 1 minute
Temp (operating)	-25°C to +70°C
Max Rotational Torque Required	500gf-cm
Operational Life	2,000 steps/min, switching
Solderability After flux	230 +/-5°C for 5 +/- 0.5 sec



▲ Binary Coded Hex	Cat.	Qty 1+	Qty 10+	Qty 25+
0 through F output	SR-1220	\$3.95	\$3.45	\$3.15
Binary Coded Decimal				
0 through 9 output	SR-1222	\$3.95	\$3.45	\$3.15

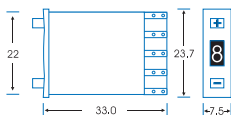
0 - 9 BCD Pushwheel

These pushwheel switches can be ganged together to make any combination and can be panel mounted using the optional pair of end caps (SR-1254). Switch positions (0 - 9) indicated via large numbers (white on black) and outputs are BCD encoded. Optional spacers (SR-1256) can be ganged together to provide spacing (7.62mm each) between the switches.

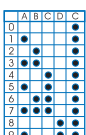
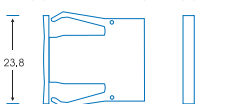
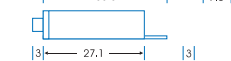
SPECIFICATIONS	SR-1250
Rating	50VAC / 28VDC Max
Switching Current	100mA Max
Continuous Current	500mA Max
Contact resistance	200m ohms Max (initial)
Insulation resistance	100M ohms Min
Dielectric strength	500VAC 1 minute
Operating temperature	-20°C to +65°C
Ambient humidity	75% RH Max
Mechanical life	200,000 steps Min
Electrical life	100,000 steps Min



Cat. SR-1250
0 - 9 Pushwheel switch



Cat. SR-1256
Spacer



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Switch	SR-1250	\$9.95	\$8.75	\$7.75
Spacer	SR-1256	\$2.45	\$2.15	\$1.95
End caps - Pair	SR-1254	\$2.45	\$2.15	\$1.95

Sealed PCB Rotary Switches

These switches have a removable ring with tab which can be inserted into the switch several ways to your particular requirements. For example, if you purchased a 1 pole x 12 way (max) switch you could convert it to, say, 1 pole 7 way between stops. They have a standard 1/4" shaft.

Panel hole 10mm. Contact rating 150mA at 240VAC.

Cutout 9.5mm.

1 POLE

Configured from 1 pole 2 position through to 1 pole 12 position.

2 POLE

From 2 pole 2 position to 2 pole 6 position

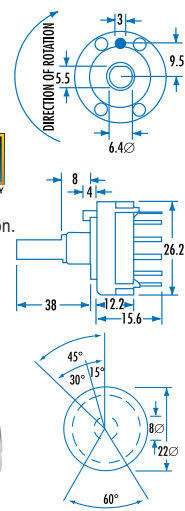
3 POLE

From 3 pole 2 position to 3 pole 4 position

4 POLE

4 pole, 2 and 3 position

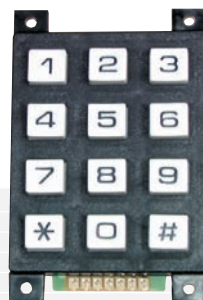
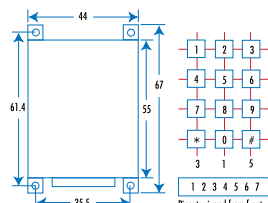
- Break before make



▲ Rating	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC 150mA	1 pole	SR-1210	\$3.95	\$3.45	\$3.15
240VAC 150mA	2 pole	SR-1212	\$3.95	\$3.45	\$3.15
240VAC 150mA	3 pole	SR-1214	\$3.95	\$3.45	\$3.15
240VAC 150mA	4 pole	SR-1216	\$3.95	\$3.45	\$3.15

12 Key Numeric Keypad

This telephone style keypad has many uses. It has 0-9, *, # - 3 x 4 way matrix.



SPECIFICATIONS	SP-0770
Contact rating	20mA, 24VDC
Contact resistance	200Ω max
Life	1,000,000 cycles per key
Contact	Conductive rubber
Dimensions (Key Face)	44(W) x 54(H) x 5(D)mm
Colour	White keys on black background

▲ Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC 20mA	SP-0770	\$8.95	\$7.95	\$6.95



SHOW US YOUR BUILD COMPETITION

Jamie, who shops at our Jaycar Midland store built:

I have plans for a miniature railway at home so I have used components and kit from Jaycar to build a prototype. When power is applied the signal goes red to show the crossing is inactive. When the relay is activated the signal flashes white and the crossing lights flash and the bell rings.

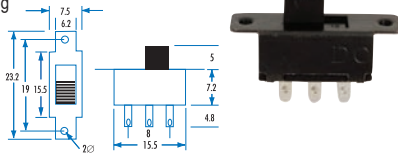
SLIDE SWITCHES

These slide switches have silver plated contacts, contact ratings of 0.3A @ 100V min, 25mΩ contact resistance, 100MΩ plus insulation resistance (at 500VDC) & endure about 10,000 cycles.

DPDT Panel Mount Sub Miniature

Break before make (non shorting contacts).

- Size 23(L) x 7(W)mm
- Actuator height 5mm.
- Mounting holes 19mm apart.
- Screws to mount switch use Cat. HP-0390.

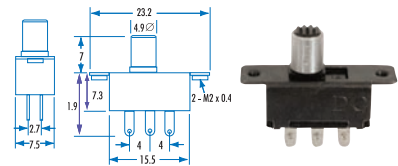


▲	100V 300mA	DPDT	Cat.	Qty 1+	Qty 10+	Qty 25+
			SS-0852	\$1.45	\$1.30	\$1.15

DPDT Panel Mount Sub Miniature

(Spun aluminium actuator)

- Panel mount.
- Size 23(L) x 7(W)mm.
- Actuator height 7mm.
- Mounting holes 19mm apart.



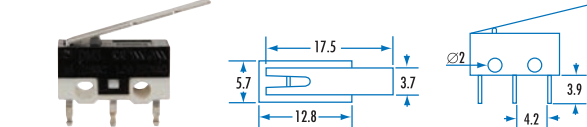
▲	100V 300mA	DPDT	Cat.	Qty 1+	Qty 10+	Qty 25+
			SS-0812	\$1.45	\$1.30	\$1.15

MONTHLY SPECIALS

Look out for our monthly promotions in store now!

MICROSWITCHES

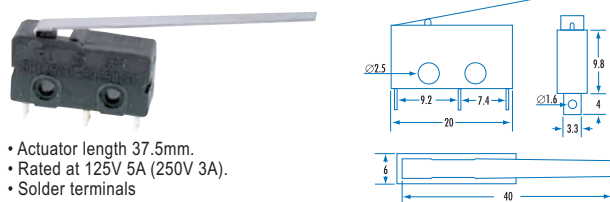
SPDT Subminiature



- Actuator length 14mm
- Rated at 125V 3A
- Solder terminals

▲	Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
	125V 3A SPDT On - On	SM-1036	\$3.95	\$3.45	\$3.15

SPDT Miniature

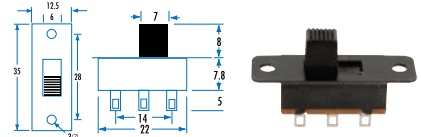


- Actuator length 37.5mm.
- Rated at 125V 5A (250V 3A).
- Solder terminals

▲	Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
	125V 3A SPDT On - On	SM-1038	\$4.95	\$4.45	\$3.90

DPDT Panel Mount Miniature

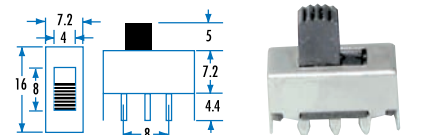
- Size 35(L) x 13(W)mm.
- Actuator height 6mm.
- Mounting holes 28mm apart
- 3mm diameter holes for screws.



▲	100V 300mA	DPDT	Cat.	Qty 1+	Qty 10+	Qty 25+
			SS-0821	\$1.25	\$1.10	\$0.97

DPDT PCB Mount Sub Miniature

- Size 16(L) x 7.2(W)mm.
- Actuator height 5mm.

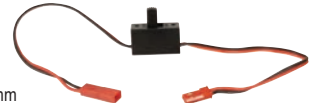


▲	100V 300mA	DPDT	Cat.	Qty 1+	Qty 10+	Qty 25+
			SS-0823	\$1.45	\$1.30	\$1.15

Inline JST Switch Kit

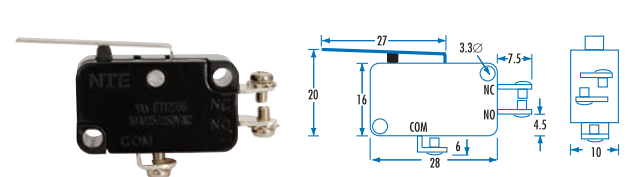
JST switches and connectors provide an unobtrusive solution to power control. They are small so will fit comfortably in the chassis of an RC vehicle. This kit includes a JST switch with a male and female JST connector on each end attached to a 140mm wire. Great for hobby applications such as model trains, remote control helicopters and cars, or simple around the house projects that require discrete and simple switching.

- Includes mounting bracket and screws
- Switch dimensions: 25(L) x 25(H) x 9(D)mm



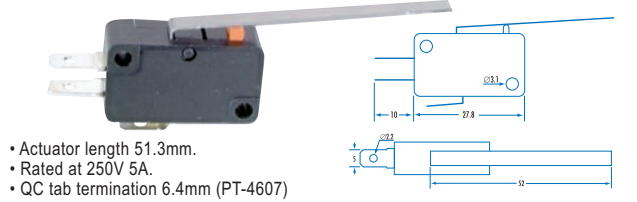
▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	SS-0826	\$3.95	\$3.45	\$3.15

SPDT Standard



▲	Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
	240VAC 10A SPDT On - On	SM-1040	\$3.75	\$3.30	\$2.95

SPDT Extended Actuator

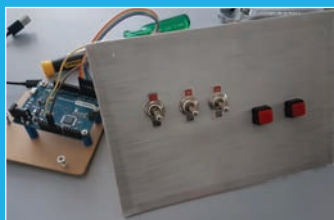


- Actuator length 51.3mm.
- Rated at 250V 5A.
- QC tab termination 6.4mm (PT-4607)

▲	Rating	Cat.	Qty 1+	Qty 10+	Qty 25+
	250VAC 5A SPDT On - On	SM-1039	\$3.75	\$3.30	\$2.95

SHOW US YOUR BUILD COMPETITION

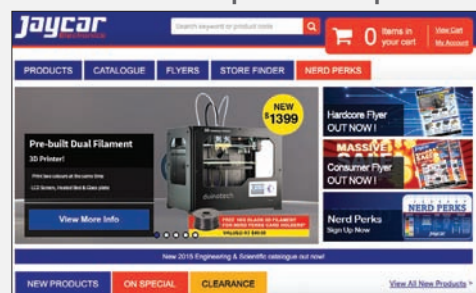
Josh, who shops at our Jaycar Hallam store built:



I was looking for a game controller but could not find what I was looking for, so I thought why not make one. Now I have a controller for a lot of games, not just one made within one day. Made with: 2 x pushbutton switches, 3 x toggle switches, 1 x DuinoTECH Lite (LEONARDO) and a pack of Jumper Leads.

BUY IT ON THE WEB...

Shop for all these Jaycar Electronics products on our website - and check out our latest products and special offers!



BUZZERS

PCB Mount Mini PC Piezo

Ideal when you need to fit an alarm in a small place. It has its own built-in drive circuit. It offers low current consumption and it's sealed for DIP soldering & washing.

SPECIFICATIONS	AB-3459
Operation voltage	9 - 14V
Rated voltage	12VDC
Current	30mA
SPL	85dB/10cm
Frequency	2.3kHz
Weight	2.4 gram

▲ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
12mm	9.5mm	AB-3459	\$4.95	\$4.45	\$3.90

PCB Mount Piezo Buzzer

SPECIFICATIONS	AB-3458
Operating Voltage	3 - 30V DC
Operating Freq	3.8 kHz
Current Draw	16mA max
SPL	85dB/30cm/12V

▲ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
24mm	16mm	AB-3458	\$3.95	\$3.45	\$3.15

Piezo Buzzer - Mini

It offers medium to loud sound output, low current consumption and is extremely durable. Supplied with fly leads.

SPECIFICATIONS	AB-3462
Operating voltage	3-16VDC
Rated	12VDC
Freq	3.3kHz
Max current at 12V	15mA
SPL	90dB

▲ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
22mm	12mm	AB-3462	\$3.95	\$3.45	\$3.15

Surface Mount Buzzer

Handy solid state buzzer operates between 5-15VDC. Used in many applications

Note: This is an electro-mechanical buzzer

SPECIFICATIONS	AB-3452
Operating voltage	5-15VDC
Rated	12VDC
Max current at 12V	40mA
SPL	79dB/1m

▲ Length	Width	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
31mm	16mm	15mm	AB-3452	\$3.95	\$3.45	\$3.15

Weatherproof Buzzer
6-14VDC

Designed to withstand exposure to rain when mounted outdoors.

• Material: ABS UL-94 1/16" HB High Heat

SPECIFICATIONS	AB-3466
Operating Voltage	6-14VDC
Rated Voltage	12VDC
Current	35mA @ 12V (max)
SPL	85dB / 1m
Frequency	2.8kHz 500Hz

▲ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
26mm	16mm	AB-3466	\$16.95	\$14.95	\$13.35

Dual Sound Piezo
Industrial Type

Similar to SONALERT® earpiercing sound. Non inductive, operates from 1 - 13V DC. Now with both continuous tone and pulsed tone. Red & black for continuous, yellow & black for pulse tone. Ideal for most signalling applications.

SPECIFICATIONS	AB-3456
Operating voltage	1 - 13VDC
Rated voltage	12VDC
Current	Single tone 35mA, pulse 20mA
Frequency	2.9kHz
SPL	105dB/30cm single, 100dB/30cm pulse
Pulse Rate	2 - 7 pulse/sec
Mounting	1 x 3mm screw.

▲ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
45mm	26mm	AB-3456	\$8.95	\$7.95	\$6.95

Piezo Reversing Alarm
Automotive Type

Available with both continuous and pulse tone. These are a heavy duty panel mounted piezo. They are very rigidly made and terminals are via screw down or 6.35mm quick disconnect.

• Similar to SONALERT®

SPECIFICATIONS	AB-3464
Operating voltage	4 - 16V
Rated voltage	12V
Max Current @ 12V	25 single, 20 pulse mA
Frequency	2.9kHz
SPL @ 12V	95 single, 90 pulse dB
Pulse Rate @ 12V	0.8 - 1.2 pulse/sec
Mounting Hole	29mm

▲ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
43.5mm	34.5mm	AB-3464	\$12.95	\$11.35	\$10.35

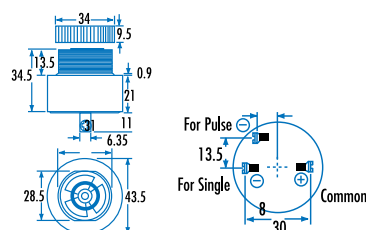
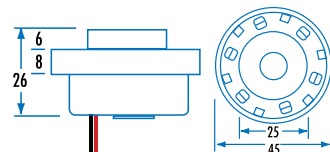
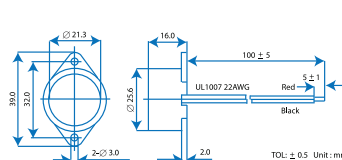
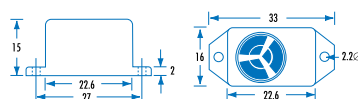
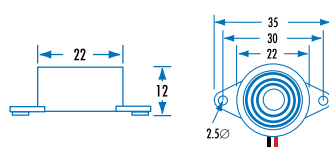
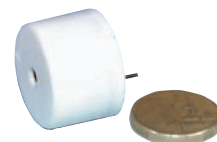
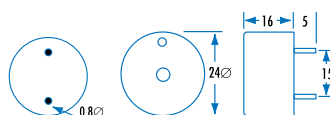
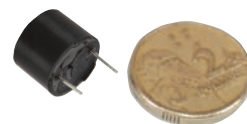
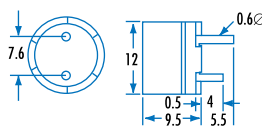
PIEZO TRANSDUCER

Low Profile Piezo Transducer

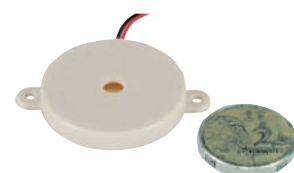
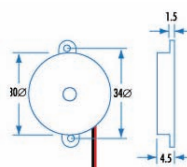
This electro-acoustic transducer contains no electronics but will transform AC voltages to sound pressure waves. It will also generate an AC voltage across its terminals when stimulated with a sound pressure wave.

SPECIFICATIONS	AB-3440
Max. Input voltage	30V pp
SPL	105dB/30cm pulse
Resonant frequency	4,200 +/-500Hz
Resonant Resistance	300 ohm max.
Electrostatic Capacitance	20,000pf +/-30%.

▲ Dia.	Height	Cat.	Qty 1+	Qty 4+	Qty 10+
30mm	5mm	AB-3440	\$3.95	\$3.45	\$3.15



See page 118 for Tech Tip on Decibels



Coin not included for size purposes only

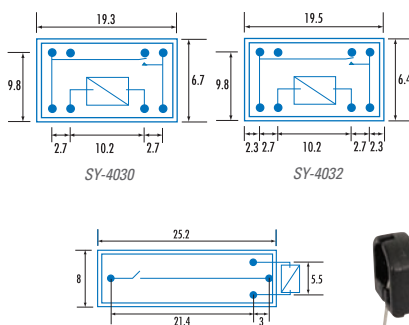
RELAYS PCB MOUNT

Dual-In-Line Reed Style Relays

They will fit into a 14 pin IC socket, are highly sensitive and can be driven by TTL, etc. Both are SPST normally open.

SPECIFICATIONS	SY-4030	SY-4032	SY-4036	SY-4038
Contact form	SPST	SPST	SPST	SPST
	normally open	normally open	normally open	normally open
Coil Resistance	500Ω	1000Ω	500Ω	1050Ω
Nominal Voltage	5V	12V	5V	12V
Rated Current	10mA	12mA	20mA	11.4mA
Pickup Voltage	3.75V DC	9.0V DC	3.5V DC	8.4V DC
Dropout Voltage	0.8V DC	1.0V DC	0.5V DC	1.2V DC
Allowable Voltage	160%	160%	160%	160%
Power Consumption (W)	-	-	0.1	0.1
Contact Rating	0.5A	0.5A	1A	1A

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
5VDC	10mA	SPST	SY-4030	\$4.75	\$4.15	\$3.75
12VDC	12mA	SPST	SY-4032	\$4.75	\$4.15	\$3.75
5VDC	20mA	SPST	SY-4036	\$3.95	\$3.45	\$3.15
12VDC	11.4mA	SPST	SY-4038	\$3.95	\$3.45	\$3.15



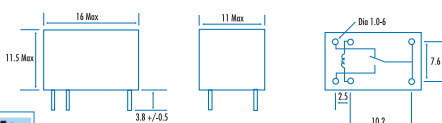
STANDARD COIL / CONTACT RELAYS

DIL Type - 6V 1A Mini

- Extra low profile, 6V DC bobbin
- 56 ohm coil resistance
- 1A / 125VAC
- PCB mount

- Contact rating: 1 Amp
- SPDT.
- Dimensions: 15 x 11 x 11(H)mm

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
125VAC	1A	SPDT	SY-4058	\$7.95	\$6.95	\$6.25



DIL Type - 12V 5A Mini

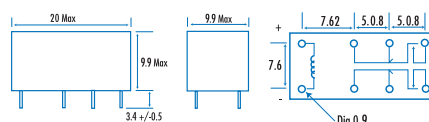
- 12 volt DPDT relay.
- 12V DC coil (polarised)
- Max switching power 60W
- Dimensions: 20 x 10 x 10(H)mm

- High sensitivity 200mW pickup power
- Coil resistance 720Ω.
- 125VA.
- PCB mount

Note: Coil is polarised

Product may vary from the one shown

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	5A	DPDT	SY-4059	\$9.95	\$8.75	\$7.75

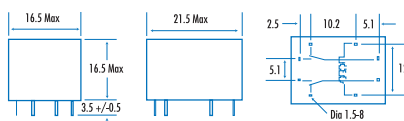


12V1A DPDT

- Rated voltage - 12VDC
- Coil resistance - 400Ω
- Dimensions: 21(W) x 16(D) x 15(H)mm

- Coil current - 30mA
- Contact rating: 1 Amp

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	1A	DPDT	SY-4061	\$5.95	\$5.35	\$4.75

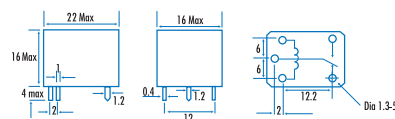


12V 10A SPDT

- Rated voltage - 12VDC
- Coil resistance - 400Ω
- Power consumption: 360mW
- NO/NC contacts

- Coil current: 30mA
- Contact rating: 10 Amp
- Maximum switching current: 10A(AC) & 5A(DC)
- Dimensions: 18(W) x 15(D) x 14(H)mm

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	SPDT	SY-4066	\$4.45	\$3.95	\$3.45

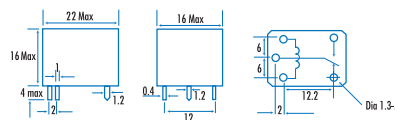


24V 10A SPDT

- Rated voltage: 24VDC
- Coil resistance: 1,600Ω
- Power consumption: 360mW
- NO/NC contacts

- Coil current: 15mA
- Contact rating: 10A
- Max switching current: 10A(AC) & 5A(DC)
- Dimensions: 22(L) x 16(W) x 16(D)mm

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC	10A	SPDT	SY-4067	\$4.45	\$3.95	\$3.45

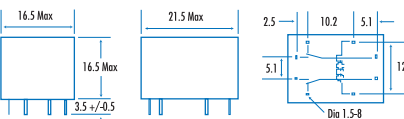


12V 5A DPDT

- Extra heavy duty mini relay
- Coil current - 30mA
- Contact rating - 5 Amp
- Dimensions: 21(W) x 16(D) x 15(H)mm

- Rated voltage - 12VDC
- Coil resistance - 400Ω
- Power consumption - 360mW
- NO/NC contacts.

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	5A	DPDT	SY-4062	\$5.95	\$5.35	\$4.75



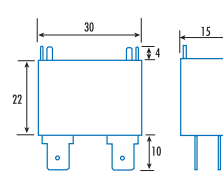
12V 20A SPST PCB Mount Relay

PCB mounting 12V relay with QC lug terminals mounted conveniently on top of case. What a good idea!

- Coil voltage: 12VDC
- Coil resistance: 275 ohms
- Contact current: 20A@24VDC max

- Coil current: 44mA
- Contacts: SPST
- Dimensions: 30(L) x 22(W) x 15(H)mm!

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	20A	SPST	SY-4029	\$8.95	\$7.95	\$6.95

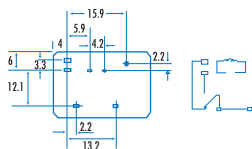


STANDARD COIL / CONTACT RELAYS (CONTINUED)

12V 30A SPDT - Standard Size (Horn Relay)

PCB version of standard 30A horn type relay. Whilst designed for auto horns, this relay is ideal for any high current application i.e. burglar alarms, ignition cutout, transmitters, car spotlights etc.

- Contact current (max) 40A
- Contact voltage (nom) 12VDC
- Nominal coil voltage 12VDC
- PC Pin termination



▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	30A	SPDT	SY-4072	\$7.45	\$6.50	\$5.75

12V 2A DPDT Latching

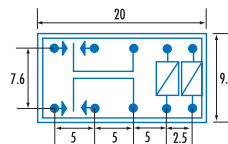
DIP style - will plug into 16 pin IC socket. Low profile. Highly sensitive - 180mW nominal power consumption.

Specifications Coil

- 2 coil latching - 12VDC
- Minimum set and reset power 180mW
- Nominal set and reset power 360mW

Specifications Contact

- Max switching power 60W, 125VA
- Max switching voltage 220VDC, 250VAC
- Max carrying current 2A @ 30VDC, 1A @ 120VAC
- Dimensions: 20(W) x 10(D) x 10(H)mm.



▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	2A	DPDT	SY-4060	\$12.95	\$11.35	\$10.35

Special PC Mount

Silver alloy contacts

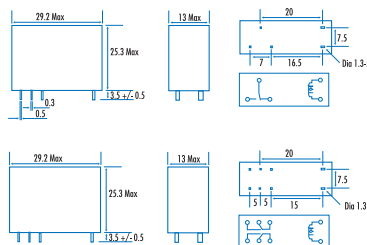
- Telecoms grade

SPDT - 12/24VDC

- Coil 270Ω - 12VDC - SY-4050
- Coil 1100Ω - 24VDC - SY-4051
- 10A @ 30VDC or 10A @ 240VAC contact rating.

DPDT - 12/24VDC

- Coil 270Ω - 12VDC - SY-4052
- Coil 1100Ω - 24VDC - SY-4053
- 2 x 5A @ 30VDC or 2 x 5A @ 240VAC contact rating.
- Dimensions: 29(W) x 12(D) x 25(H)mm



▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	SPDT	SY-4050	\$7.95	\$6.95	\$6.25
24VDC	10A	SPDT	SY-4051	\$8.95	\$7.95	\$6.95
12VDC	5A	DPDT	SY-4052	\$8.95	\$7.95	\$6.95
24VDC	5A	DPDT	SY-4053	\$9.95	\$8.75	\$7.75

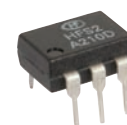
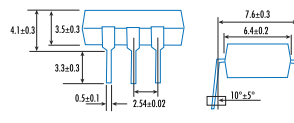
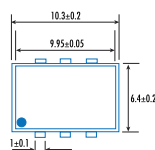
SOLID STATE RELAYS

Solid state relays are particularly useful when only low switching currents are available, such as those presented by CMOS or TTL circuits. Optically isolated for optimum safety, the relays feature high surge ratings to allow lamp and motor switching plus zero voltage turn-on and zero current turn off to minimise EMI and RFI emissions. Use this relay in conjunction with our remote control switches for safe 240V AC mains switching.

PCB Mount Solid State DIL Relay

Able to be triggered from low currents, and a super small package. Low on resistance and very low quiescent current.

SPECIFICATIONS	SY-4090
Must release current	0.4mA
Must operate current	5mA
Maximum load voltage	60VDC
Maximum load current	150mA
Package	6 pin DIL



▲ Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
5V	500mA	SY-4090	\$4.95	\$4.45	\$3.90

CONVERTING TO A LATCHING RELAY

How to turn an ordinary relay into latching type!

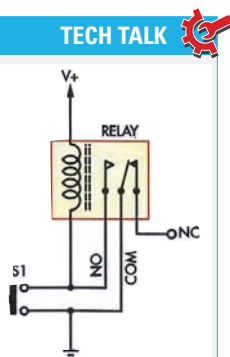
Sometimes you want to energise a relay to stay "on" instead of only momentarily staying on. For example you may want to make an electric motor, or a solenoid to stay on for some time. You can do this with the circuit shown.

The key to this is a momentary push button switch (there are many in this catalogue.)

Pressing the push button switch (S1) activates the relay and closes the N O (Normally Open) and COM (Common) contacts. These contacts form a parallel connection across S1. Even if S1 is now opened, the relay will stay ON, or "latched."

To turn the relay off, you must interrupt power to the coil, in other words, switch V+ off, even momentarily. Even if you switch V+ on again, the relay will remain off, until you push S1 again.

Note: While the relay is energized, it will continue to draw coil current. True mechanical latching relays do not do this.



TECH TALK

SHOW US YOUR BUILD COMPETITION

John, who shops at our Jaycar Bankstown store built:



Chilled fresh food cat feeder using four Peltier devices, diecast boxes, cooling fans and relay coils to hold the lids closed. All Arduino controlled to open a lid in turn every 24 hours. All using Jaycar components.

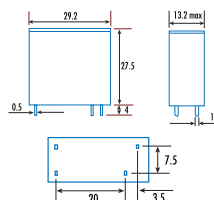
SOLID STATE RELAYS (CONTINUED)

PCB Mount Solid State Relays, Low Current

Low profile PCB mounting solid state relays with LED input status indication.
Suitable for applications such as I/O interfaces and programmable logic controllers.

SPECIFICATIONS	SY-4092	SY-4093
Control voltage range	4 - 6VDC	9.6 - 14.4VDC
Max. input current	20mA	20mA
Load voltage	3 - 52.8VDC	3 - 50VDC
Load current	0.01 - 2A	0.01 - 2A

Will only switch off if DC power interrupted



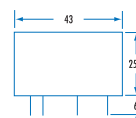
▲ Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
5VDC	2A	SY-4092	\$7.95	\$7.15	\$6.35
12VDC	2A	SY-4093	\$7.95	\$7.15	\$6.35

SY-4080: MAINS TYPE

SPECIFICATIONS - OUTPUT	SY-4080	SPECIFICATIONS - INPUT	SY-4080
Max load current	3A	Control voltage	3-32V DC
Nominal line voltage	240V AC	Control current	15mA Max
Load voltage range	24-280V AC	Min. turn off voltage	1V DC
Min. blocking voltage	600V AC	Input resistance	2.2kΩ min
Max one-cycle surge current	80A		
Min. load current	50mA		
AC current	3A max		



Not for controlling DC

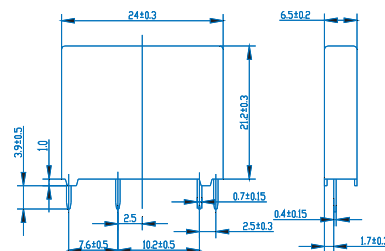


▲ Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
3-32VDC	3A	SY-4080	\$19.95	\$17.95	\$15.95

Slim 5V, 12V

- Ultra slim
- 600V blocking voltage
- 2A switching
- Sealed type
- Photo isolation

SPECIFICATIONS	5VDC (SY-4088)	12VDC (SY-4089)
Dielectric strength	20000VAC (1 minute)	20000VAC (1 minute)
Insulation Resistance	100MΩ (at 500VDC)	100MΩ (at 500VDC)
Operating temperature	-30°C to +80°C	-30°C to +80°C
INPUT RATINGS		
Control Voltage	4-6 VDC	9.6 - 14.4 VDC
Maximum Current	15mA	15mA
Voltage On	4V	4V
Current Off	1V	1V
OUTPUT RATINGS		
Voltage (AC Power)	50 - 250VAC	50 - 250VAC
Maximum Current	2A	2A
Surge Current	30A	30A



Not for controlling DC



▲ Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
5VDC	2A	SY-4088	\$6.95	\$6.25	\$5.50
12VDC	2A	SY-4089	\$6.95	\$6.25	\$5.50

Chassis Mount Solid State Relays, High Current

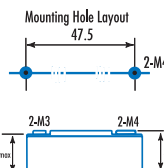
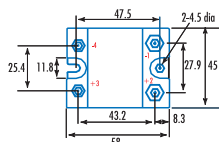
Both look similar but are in fact quite different

SY-4084 40A, 240VAC TRIAC TYPE

This unit has a dielectrically isolated D.C. control input that controls a 40amp TRIAC. This means that you can control AC mains up to 40A RMS. It also means that it will not control D.C.. For that you need the SY-4086 below.

Specifications for SY-4084

- Dielectric isolation rating 4000VAC
- Photo isolation
- Built-in snubber
- Triac controlled AC out. 48-280VAC.
- Opto isolated control, 4V min, 32V max (D.C.)
- RoHS compliant.



SY-4086 100A, 0-30VDC MOSFET TYPE

This unit has a dielectrically isolated D.C. control input to switch a MOSFET which can control loads of up to 100A @ 30VDC. It will not switch AC. To switch AC use the SY-4084. NB: Mechanical details same for both units. Advantages of SY-4086. Switching high current D.C. was previously accomplished by high current contactors. Contactors, however, wear out quickly as they are plagued by arcing of the actual contacts. There is no arcing with MOSFETS and their very low ON-resistance (in this case 3.5 milli Ω) ensures little wasted energy.

Fast recovery diode*



DC Output Solid State Relay Schematic

*The diode is required to prevent back EMF problems with inductive loads. The diode should be a fast recovery type with a PIV rating greater the VDC Power Supply.

SPECIFICATIONS - OUTPUT CIRCUIT	SPECIFICATIONS - INPUT CIRCUIT
Load Voltage	0-30VDC
Load Current	0.02-100A
Max On-State Resistance	0.0035Ω
Max On-State Voltage Drop	0.35V
Max Turn On Time	0.5ms
Max Turn Off Time	0.5ms
Max Surge Current	240A (10ms)

HEATSINK TO SUIT SY4084/SY4086

Using this heat sink with the SY-4084/SY-4086 solid state relays assures you reach the full current capacity. Solid state relays become quite hot when used in a high current application, so suitable heat sinking is essential. Datasheet available on our website.

- Thermal resistance - 1.1°C/W
- Dimensions - 118(W) x 110(L) x 64(H)mm



▲ Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
240VAC (ONLY)	40A	SY-4084	\$49.95	\$44.95	\$39.95
30VDC	100A	SY-4086	\$49.95	\$44.95	\$39.95
Heatsink to suit		SY-4085	\$19.95	\$17.95	\$15.95

CRADLE RELAYS

Cradle Relay - DPDT

PCB or DIN mount relays. Available in 12V or 24VDC configuration.

- Relay 24VDC 10A
- Coil current: 58mA
- Contact resistance: 50 milliohms
- Must operate voltage: 19.2VDC
- Coil resistance: 650Ω (SY-4007), 160Ω (SY-4008)
- Rated coil voltage: 24VDC
- Contact rating: 10A (resistive load)
- Operate time: 25ms max,
- Operational life: 20 million cycles,
- Suitable base: SY-4064

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	DPDT	SY-4008	\$7.95	\$6.95	\$6.25
24VDC	10A	DPDT	SY-4007	\$7.95	\$6.95	\$6.25

Cradle Relay - DPDT

For heavy current switching for mains appliances eg. high power speakers.

- Contact rated at 10A 240VAC.
- Coil 12VDC 160 ohms.
- Suitable base: Use SY-4064 cradle
- NO/NC contacts.
- DPDT contacts.
- Dimensions: 27(W) x 20(D) x 35(H)mm.

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	10A	DPDT	SY-4065	\$7.95	\$6.95	\$6.25

Cradle Relay - 4PDT

- Rated Voltage: 12VDC
- Coil Resistance: 180Ω
- Contact Rating: 5A NO/NC contacts
- 27(W) x 21(D) x 35(H) excl pins
- Suitable base: SY-4004

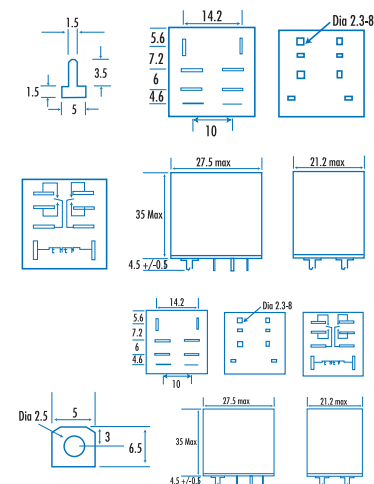
▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	5A	4PDT	SY-4009	\$9.95	\$8.75	\$7.75

DIN Rail Mount Relay Socket

DIN rail mounting base for SY-4009. Also has 4mm holes so can be screw mounted to a chassis.

- Dimensions: 71(L) x 29(W) x 30(H)mm

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Suits SY-4009	SY-4004	\$6.95	\$6.25	\$5.55



Cradle Relay Base

Quality DIN rail mount with screw terminals.

- Suits SY-4065
- Dimensions: 72(W) x 29(D) x 30(H)mm.

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Suits SY-4065	SY-4064	\$5.95	\$5.35	\$4.75

PANEL/CHASSIS MOUNT RELAYS

All feature rugged construction and quick connect terminals for easy installation.

24VDC OR 240VAC, DPDT, 30A

Two models available. One with a nominal 240VAC coil and one with 24VDC coil.

- Contact Form: DPDT
- Contact Rating: 30A NO / 3A NC
- 24V Model Coil Resistance: 350 ohm
- 240V Model Coil Resistance: 3800 ohm@50Hz

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
24VDC	30A	DPDT	SY-4041	\$21.95	\$19.75	\$17.75
240VAC	30A	DPDT	SY-4044	\$24.95	\$22.50	\$19.95

12VDC, SPST 30A

- Contact Rating: 30A/240V
- QC tab termination - 4.8mm coil, 6.4mm contacts
- Used in heavy duty applications like air conditioning, heating etc.
- Coil: 12V, 120 ohm

See website for full specifications

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	30A	SPST	SY-4040	\$7.95	\$7.10	\$6.25

6 Way Membrane Switch Panel with Relay Box - IP67

An ultra compact 6-way 12VDC touch control panel to control devices in automotive, camping, or marine applications. It features an ultra thin and flexible membrane switch panel with almost no mounting depth requiring only a very small cut-out. The 6 buttons on the switch panel control 6 relays in the separate control box for switching on/off any connected devices with ease, with the switch

SPECIFICATIONS	SP-0900
Max current	10A per channel, 35A total
Touch Panel Dimensions	70(L) x 63(W) x 1(H)mm
Membrane Control Box Dimensions	135(L) x 90(W) x 33(H)mm

panel connecting to the control box with an included 1m long ribbon cable. This gives you a completely waterproof (IP67) switch panel, with all the wiring taken care of behind your dash/panel, resulting in a neat and unobtrusive 6-way switch interface.

- IP67 rating on the switch panel
- Built-in resettable fuses

▲ Voltage	Current	Cat.	Qty 1+
12VDC	6x10A	SP-0900	\$69.95

Limited Stock



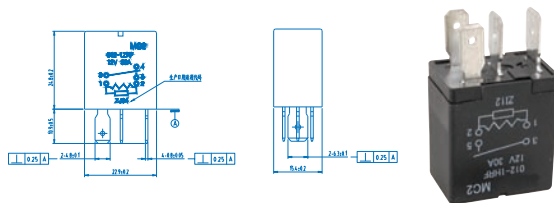
AUTOMOTIVE RELAYS

Micro 30A Horn Relays

Extremely compact with a footprint of only 22 x 15mm, but maintaining high contact currents for automotive applications. Ideal for air horns, fog lamps or driving light installations. 30A rating on NO contacts, 20A on NC for both 12V and 24V types.

NOT JUST FOR HORNS OF COURSE

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	30A	SPST	SY-4045	\$6.50	\$5.75	\$4.95
12VDC	30A	SPDT	SY-4046	\$6.50	\$5.75	\$4.95
24VDC	30A	SPDT	SY-4047	\$6.50	\$5.75	\$4.95

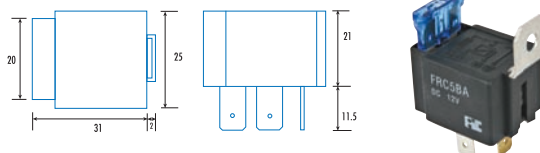


Automotive Fused Relays - 15/30A

Designed for automotive applications, these quality relays have an integrated blade fuse (fuse included) and metal mounting bracket. SY-4076 - 15A, ideal for aftermarket horns etc. SY-4077 - 30A, suits high current accessories like fog lights, driving lights etc.

• QC tab termination 6.8mm (PT-4507)

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	15A	SPST	SY-4076	\$8.95	\$7.95	\$6.95
12VDC	30A	SPST	SY-4077	\$9.95	\$8.75	\$7.75

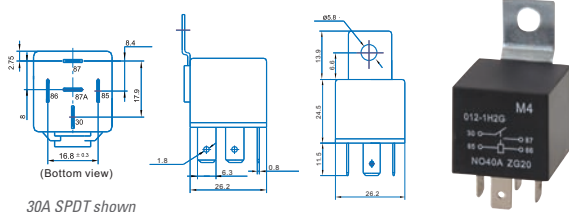


Automotive Horn Relay - 30A

Whilst designed for auto horns, this relay is ideal for any high current application. i.e. alarms, ignition cutout, transmitters, car spotlights etc. Contact voltage (nom) 12VDC. Nominal coil voltage 12VDC. QC tab termination

Also see our PCB mount version Cat. SY-4072 shown on page 239.

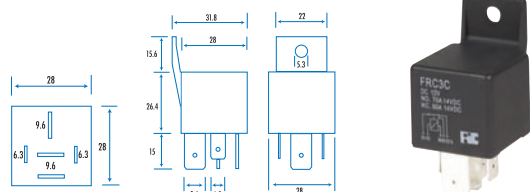
▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	30A	SPST	SY-4068	\$5.95	\$5.25	\$4.75
12VDC	30A	SPDT	SY-4070	\$5.95	\$5.25	\$4.75
Base to Suit			SY-4069	\$4.95	\$4.45	\$3.90



Automotive Horn Relay - 60A SPDT

- Contact voltage (nom) 12VDC
- Nominal coil voltage 12VDC.
- QC tab termination
- SPDT
- Heavy duty quick connectors required for 60A terminals use PT-4717 Pkt. 4

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	60A	SPDT	SY-4074	\$8.95	\$7.95	\$6.95

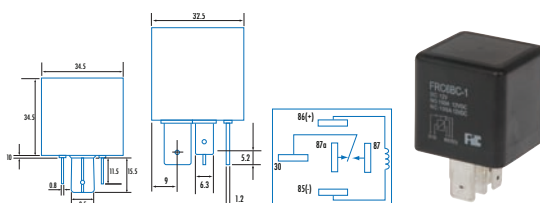


Automotive Relay - 150A SPDT

150A contacts for ultra high power applications such as multiple lights, high power audio etc, in a small package.

- Contacts: SPDT
- Contact rating: 150A
- Coil resistance: 50 ohms
- Operate time: 10ms
- Operational life: 100,000 cycles
- Contact resistance: 30m ohm max
- Coil voltage: 12VDC
- Rated coil current: 240mA
- Release time: 5ms

▲ Voltage	Current	Contacts	Cat.	Qty 1+	Qty 10+	Qty 25+
12VDC	150A	SPDT	SY-4073	\$15.95	\$14.35	\$12.75



RELAY ACCESSORIES

Automotive Relay Base to suit above Horn Relays

This is a plug in base with cable attached.

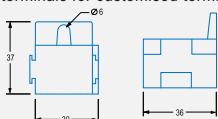
- Suits SY-4068 & SY-4070

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SY-4069	\$4.95	\$4.45	\$3.90



Interlocking Relay Socket with Leads

The easy and neat way to add multiple relays to your electrical system. These relay bases interlock together, can be panel mounted and take standard 5 pin automotive relays. They also come with integral flying leads as well as bare crimp terminals for customised termination.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
150mm long leads	SY-4078	\$8.50	\$7.50	\$6.75

RELATED PRODUCTS

12VDC Universal Relay Wiring Kits

Universal relay wiring kits for fitting various 12V devices to your car, such as our LED driving lights. Each harness is complete ready to use with fused battery connections, horn relay, in-cabin toggle switch, and waterproof 2 pin connection with 2m of extra wires to connect to the 12V load you want to control. The cables are fully protected inside a loom tube. Three harnesses to choose from:

12VDC 7A - SINGLE - SY-4079

- Includes a short double adaptor lead so that you can fit two or more of these wiring harnesses and control them with the one switch
- Sold individually

12VDC 13.5A - DUAL - SY-4180

- Controls a pair of LED driving lights or devices up to 150W
- Sold as a pair

12VDC 22.5A - DUAL - SY-4182

- Controls a pair of LED driving lights up to 200W
- Sold as a pair



SY-4079

See page 474 for similar relays

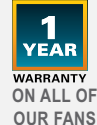
▲	Wiring	Cat.	Qty 1+
7A	Single	SY-4079	\$24.95
13.5A	Dual	SY-4180	\$34.95
22.5A	Dual	SY-4182	\$44.95

MECHANICAL VENTILATION (FANS)



Suitable for computers, office machinery, appliances, copying machines, power units, amplifiers, automatic vending machines, air conditioning, medical equipment etc.

- Long life - 60,000 hours at 25°C, 30,000 hours at 40°C
- Ball bearing: 100,000 hrs @ 25°C
- Can be mounted on suction or discharge side
- Wiring will not burn out even if rotating parts are restricted

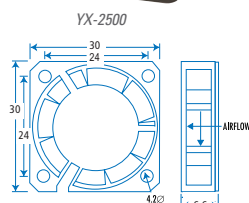
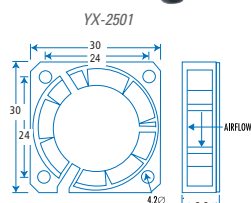


FANS										COMPARISON GUIDE	
Size mm	Depth mm	Operating Volt	Bearing Type	Air Volume (CFM)	Speed (RPM)	Connection	Housing	Tacho	Cat	Page	
5VDC AXIAL FAN											
30	6	5VDC	Ball	108	8,000	Flylead	Plastic	No	YX-2500	243	
12VDC AXIAL FANS											
30	6	12VDC	Ball	108	8,000	Flylead	Plastic	No	YX-2501	243	
40	10	12VDC	Sleeve	5.4	6,000	Flylead	Plastic	No	YX-2503	243	
40	20	12VDC	Sleeve	7.6	7,000	Flylead	Plastic	No	YX-2502	243	
40	10	12VDC	Ball	5.4	6,000	Flylead & Plug	Plastic	Yes	XC-5054	243	
50	15	12VDC	Sleeve	16.6	5,500	Flylead	Plastic	No	YX-2504	244	
50	10	12VDC	Ball	11.6	5,500	Flylead & Plug	Plastic	Yes	XC-5055	244	
60	25.4	12VDC	Sleeve	20	4,000	Flylead	Plastic	No	YX-2505	244	
80	25.4	12VDC	Sleeve	34	3,000	Flylead	Plastic	No	YX-2512	244	
80	25.4	12VDC	Ball	34	3,000	Flylead	Plastic	No	YX-2513	244	
80	20	12VDC	Ball	42	3,100	Flylead	Plastic	No	YX-2523	244	
80	25	12VDC	Magnetic	28.1	2,000	Flylead	Polycarbonate	No	YX-2580 *	245	
80	25	12VDC	Ball	20.7	1,600	3 Pin Molex	Polycarbonate	No	YX-2570 *	245	
90	25	12VDC	Sleeve	59	3,000	Flylead	Plastic	No	YX-2521	244	
92	25	12VDC	Magnetic	39.8	2,000	Flylead	Polycarbonate	No	YX-2582 *	245	
92	25	12VDC	Ball	31.3	1,500	3 Pin Molex	Polycarbonate	No	YX-2572 *	245	
120	25.4	12VDC	Ball	88	3,000	Flylead	Plastic	No	YX-2518	244	
120	25	12VDC	Ball	88	3,000	Flylead	Plastic	No	YX-2522	244	
120	25	12VDC	Magnetic	64.3	1,500	Flylead	Polycarbonate	No	YX-2584 *	245	
120	25	12VDC	Ball	37	1,000	3 Pin Molex	Polycarbonate	No	YX-2574 *	245	
12VDC BLOWER FANS											
97 x 94	33	12VDC	Ball	26	3,600	Flylead	Plastic	No	YX-2532	245	
24VDC AXIAL FAN											
80	25.4	24VDC	Ball	40	3,200	Flylead	Plastic	No	YX-2542	245	
240VAC AXIAL FANS											
80	25.4	240VAC	Sleeve	23	2,800	Flylead	Metal	No	YX-2509	246	
80	38	240VAC	Sleeve	30	2,800	Flylead	Metal	No	YX-2510	246	
80	38	240VAC	Ball	30	2,800	Flylead	Metal	No	YX-2508	246	
120	25.4	240VAC	Sleeve	80	2,350	Solder	Metal	No	YX-2516	246	
120	38	240VAC	Sleeve	105	3,000	Solder	Metal	No	YX-2514	246	
120	38	240VAC	Ball	105	3,000	Solder	Metal	No	YX-2517	246	
150	55	240VAC	Ball	230	3,400	Use PS-4160	Metal	No	YX-2520	246	

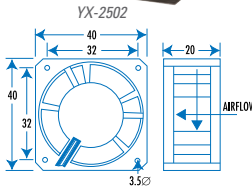
Note: Fans with * on page 245 are not Sirocco brand and have specific technical data. Please refer to that page.

All 240V rated fans work equally well on 230V mains

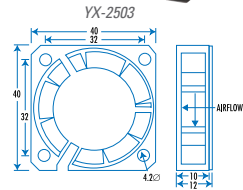
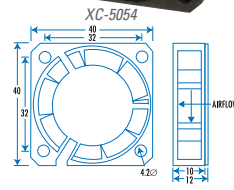
5V/12VDC FANS

5VDC
30mm Thin - 2 Wire12VDC
30mm Thin - 2 Wire

40mm - 2 Wire



40mm Thin - 2 Wire

40mm Ball Bearing
- 3 Wire

SPECIFICATIONS

	YX-2500	YX-2501	YX-2502	YX-2503	XC-5054
Voltage (V)	5VDC	12VDC	12VDC	12VDC	12VDC
Current (mA)	200	120	100	80	80
Dimensions (mm)	30 x 30 x 6	30 x 30 x 6	40 x 40 x 20	40 x 40 x 10	40 x 40 x 10
Air Volume (m³/min)	3.1	3.1	0.215	0.16	0.16
Air Volume (CFM)	108	108	7.6	5.4	5.4
Speed (RPM)	8,000	8,000	7000	6000	6000
Noise (dBA)	27	27	32	30	30
Bearing System	Ball	Ball	Sleeve	Sleeve	Ball
Housing	Plastic, GRP filled	Plastic, GRP filled	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled
Impeller	Plastic, GRP filled	Plastic, GRP filled	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled
Connections	Flylead	Flylead	Flylead	Flylead	Flylead

▲ Voltage	Size	Cat	Qty 1+	Qty 4+	Qty 10+
5VDC	30mm	YX-2500	\$13.95	\$12.35	\$10.95
12VDC	30mm	YX-2501	\$13.95	\$12.35	\$10.95

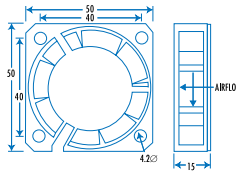
▲ Voltage	Size	Cat	Qty 1+	Qty 4+	Qty 10+
12VDC	40mm	YX-2502	\$19.95	\$17.70	\$15.70
12VDC	40mm	YX-2503	\$16.95	\$14.95	\$13.35
12VDC	40mm	XC-5054	\$15.95	\$14.35	\$12.75

12VDC FANS (CONTINUED)

50mm Thin - 2 Wire



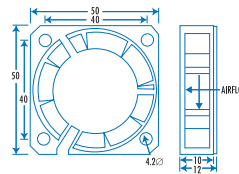
YX-2504



50mm Ball Bearing - 3 Wire



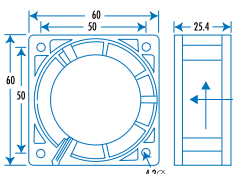
XC-5055



60mm - 2 Wire



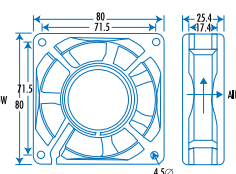
YX-2505



80mm - 2 Wire



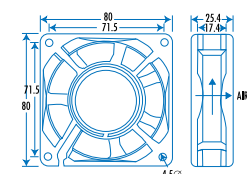
YX-2512



80mm Ball Bearing - 2 Wire



YX-2513

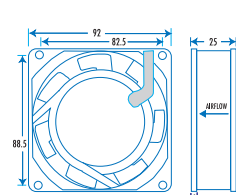


SPECIFICATIONS	YX-2504	XC-5055	YX-2505	YX-2512	YX-2513
Voltage (V)	12VDC	12VDC	12VDC	12VDC	12VDC
Current (mA)	190	130	130	200	200
Dimensions (mm)	50 x 50 x 15	50 x 50 x 10	60 x 60 x 25.4	80 x 80 x 25.4	80 x 80 x 25.4
Air volume (m³/min)	0.7	0.33	0.57	0.97	0.97
Air volume (CFM)	16.6	11.6	20	34	34
Speed (RPM)	5500	5500	4000	3000	3000
Noise (dBA)	33	31	30	32	32
Bearing	Sleeve	Ball	Sleeve	Sleeve	Ball
Housing	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled
Connections	Flylead	Flylead	Flylead	Flylead	Flylead

90mm - 2 Wire



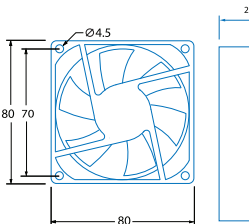
YX-2521



80mm Ball Bearing - IP55



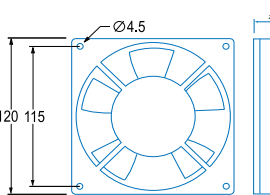
YX-2523



120mm Ball Bearing - IP55



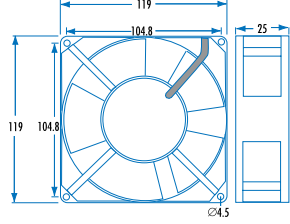
YX-2522



120mm Thin Ball Bearing - 2 Wire



YX-2518



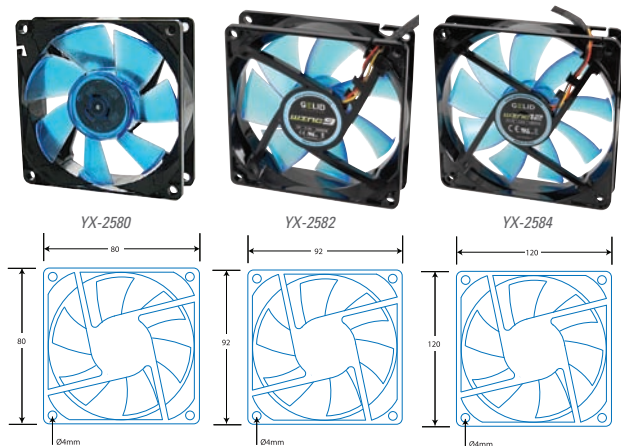
SPECIFICATIONS	YX-2521	YX-2523	YX-2522	YX-2518
Voltage (V)	12VDC	12VDC	12VDC	12VDC
Current (mA)	320	200	380	360
Dimensions (mm)	90 x 90 x 25	80 x 80 x 25	120 x 120 x 25	120 x 120 x 25.4
Air volume (m³/min)	1.67	1.2	3	2.3
Air volume (CFM)	59	42	88	88
Speed (RPM)	3000	3100	3000	3000
Noise (dBA)	36	35	42	42
Bearing	Sleeve	Ball	Ball	Ball
Housing	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled
Connections	Flylead	Flylead	Flylead	Flylead

▲ Voltage	Size	Cat	Qty 1+	Qty 4+	Qty 10+
12VDC	50mm	YX-2504	\$17.95	\$15.95	\$14.35
12VDC	50mm	XC-5055	\$15.95	\$14.35	\$12.75
12VDC	60mm	YX-2505	\$17.95	\$15.95	\$14.35
12VDC	80mm	YX-2512	\$17.95	\$15.95	\$14.35
12VDC	80mm	YX-2513	\$19.95	\$17.70	\$15.70

▲ Voltage	Size	Cat	Qty 1+	Qty 4+	Qty 10+
12VDC	90mm	YX-2521	\$19.95	\$17.70	\$15.70
12VDC	80mm	YX-2523	\$24.95	\$22.35	\$19.70
12VDC	120mm	YX-2522	\$36.95	\$33.45	\$29.45
12VDC	120mm	YX-2518	\$28.95	\$25.95	\$22.95

12VDC MAGLEV & HYDRODYNAMIC FANS

Super Long-Life Low-Noise MagLev Bearing Case Fans



Featuring a patented Nanoflux bearing that incorporates magnetic levitation (maglev) technology and precise manufacturing, these premium quality fans ensure an extremely long operational life of 100,000hrs at 40°C (even longer at 25°C). Not only does the unique self-lubricating maglev bearing design offer extremely long life, but also extremely low noise levels compared to traditional ball bearings, and also offers the ability for the fan impeller to be removed for cleaning. The fan impeller itself has a winglet tip design and is UV reactive. Rubber fan mounts are also included to eliminate fan motor vibrations entering the case, further reducing noise levels. Dust/waterproof to IP54, these fans are sure to last even in harsh conditions.



• Black: earth, Red: 12V+, Yellow: Tacho output (1 pulse/rev)

SPECIFICATIONS	YX-2580	YX-2582	YX-2584
Voltage (V)	12VDC	12VDC	12VDC
Starting voltage (V)	5VDC	5VDC	5VDC
Current (mA)	100	180	220
Dimensions (mm)	80 x 80 x 25	92 x 92 x 25	120 x 120 x 25
Air volume (m³/min)	0.8	1.13	1.82
Air volume (CFM)	28.1	39.8	64.3
Speed (RPM)	2000	2000	1500
Noise (dBA)	21	22.5	25
Bearings	Nanoflux magnetic levitation	Nanoflux magnetic levitation	Nanoflux magnetic levitation
Housing	Polycarbonate	Polycarbonate	Polycarbonate
Impellers	UV reactive polycarbonate	UV reactive polycarbonate	UV reactive polycarbonate
Connections	Flylead - 3 pin molex	Flylead - 3 pin molex	Flylead - 3 pin molex

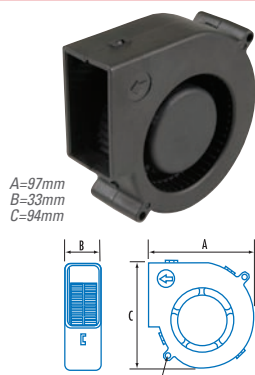
▲	Voltage	Size	Cat	Qty 1+	Qty 4+	Qty 10+
	12VDC	80mm	YX-2580	\$24.95	\$22.35	\$19.70
	12VDC	90mm	YX-2582	\$29.95	\$26.90	\$23.70
	12VDC	120mm	YX-2584	\$34.95	\$31.45	\$27.90

12VDC BLOWER FAN

97mm x 94mm Blower Fan Ball Bearing - 2 Wire

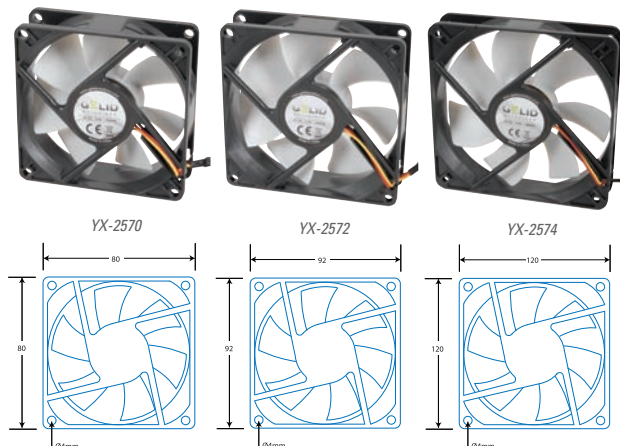
Ideal for applications where space is limited but high air volume is required.

SPECIFICATIONS	YX-2532
Voltage (V)	12VDC
Current (mA)	860
Dimensions (mm)	97 x 94 x 33
Air volume (m³/min)	0.74
Air volume (CFM)	26
Speed (RPM)	3600
Noise (dBA)	51
Bearing	Ball
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead



▲	Voltage	Size	Cat	Qty 1+	Qty 4+	Qty 10+
	12VDC	97x94mm	YX-2532	\$29.95	\$26.90	\$23.70

Silent Hydrodynamic Bearing Case Fans



Designed to provide additional airflow without increasing noise levels these fans have precisely balanced blades and long-life hydro-dynamic bearing. Ultra-low noise making these fans perfect for a home theatre PC, or ventilating the amplifier wedged into your entertainment unit. To further improve silence, rubber fan mounts are included to eliminate fan motor vibrations inducing vibration noise.

• Rated to last for 50,000 hours at 40°C (more at 25°C).



SPECIFICATIONS	YX-2570	YX-2572	YX-2574
Voltage (V)	12VDC	12VDC	12VDC
Current (mA)	80	130	80
Dimensions (mm)	80 x 80 x 25	92 x 92 x 25	120 x 120 x 25
Air volume (m³/min)	0.59	0.89	1.05
Air volume (CFM)	20.7	31.3	37
Speed (RPM)	1600	1500	1000
Noise (dBA)	18	20	20.2
Bearings	Ball (hydrodynamic)	Ball (hydrodynamic)	Ball (hydrodynamic)
Housing	Polycarbonate	Polycarbonate	Polycarbonate
Impellers	Polycarbonate	Polycarbonate	Polycarbonate
Connections	Flylead - 3 pin molex	Flylead - 3 pin molex	Flylead - 3 pin molex

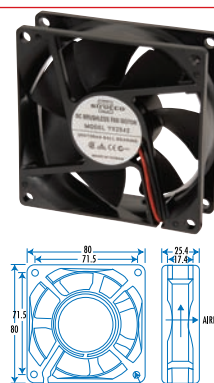
▲	Voltage	Size	Cat	Qty 1+	Qty 4+	Qty 10+
	12VDC	80mm	YX-2570	\$19.95	\$17.70	\$15.70
	12VDC	90mm	YX-2572	\$24.95	\$22.35	\$19.70
	12VDC	120mm	YX-2574	\$28.95	\$25.95	\$22.95

24VDC FANS

80mm 24VDC Thin Ball Bearing Version - 2 Wire

Life expectancy 100,000 hours @ 25°C.

SPECIFICATIONS	YX-2542
Voltage (V)	24VDC
Current (mA)	130
Dimensions (mm)	80 x 80 x 25.4
Air volume (m³/min)	1.1
Air volume (CFM)	40
Speed (RPM)	3200
Noise (dBA)	35
Bearing	Ball
Housing	Plastic, fibreglass filled
Impeller	Plastic, fibreglass filled
Connections	Flylead



▲	Voltage	Size	Cat	Qty 1+	Qty 4+	Qty 10+
	24VDC	80mm	YX-2542	\$29.95	\$26.90	\$23.70

ADDICTED TO SOCIAL? WE'RE HERE TO CHAT - WHATEVER YOUR CHANNEL!



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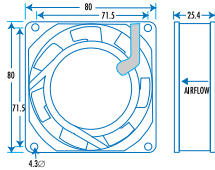


240VAC FANS

80mm Thin 2 Wire



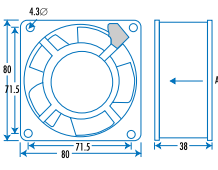
YX-2509



80mm Standard - 2 Wire



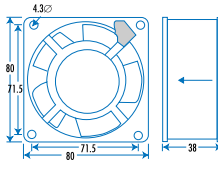
YX-2510



80mm Ball Bearing - 2 Wire



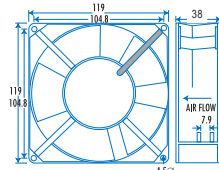
YX-2508



120mm - Solder Lugs



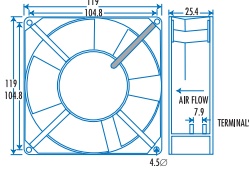
YX-2514



120mm Thin - Solder Lugs



YX-2516



SPECIFICATIONS	YX-2509	YX-2510	YX-2508	YX-2514	YX-2516
Voltage (V)	240VAC	240VAC	240VAC	240VAC	240VAC
Current (mA)	120	80	100	125	120
Dimensions (mm)	80 x 80 x 25.4	80 x 80 x 38	80 x 80 x 38	120 x 120 x 38	120 x 120 x 25.4
Air volume (m³/min)	0.67	0.88	0.88	3	2.3
Air volume (CFM)	23	30	30	105	80
Speed (RPM)	2800	2800	2800	3000	2350
Noise (dBA)	33	35	32	47	44
Bearing	Sleeve	Sleeve	Ball	Sleeve	Sleeve
Housing - Diecast	Aluminium	Aluminium, powdercoated	Aluminium, powdercoated	Aluminium	Aluminium
Impeller	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled	Plastic, fibreglass filled
Connections	Flylead	Flylead	Flylead	Solder lugs	Solder lugs
Other	-	-	Life - 100,000 hrs@25°C	Life - 100,000 hrs@25°C	Life - 100,000 hrs@25°C

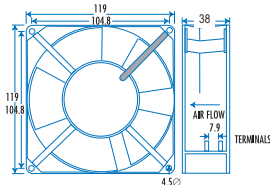
▲ Voltage	Size	Cat	Qty 1+	Qty 4+	Qty 10+
240VAC	80mm	YX-2509	\$29.95	\$26.90	\$23.70
240VAC	80mm	YX-2510	\$29.95	\$26.90	\$23.70
240VAC	80mm	YX-2508	\$36.95	\$33.45	\$29.45

▲ Voltage	Size	Cat	Qty 1+	Qty 4+	Qty 10+
240VAC	120mm	YX-2514	\$28.95	\$25.95	\$22.95
240VAC	120mm	YX-2516	\$29.95	\$26.90	\$23.70

120mm Ball Bearing - Solder Lugs



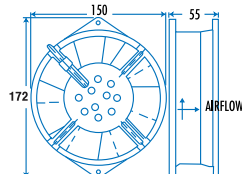
YX-2517



150mm Ball Bearing - 2 Wire



YX-2520



SPECIFICATIONS	YX-2517	YX-2520
Voltage (V)	240VAC	240VAC
Current (mA)	125	290
Dimensions (mm)	120 x 120 x 38	150 x 172 x 55
Air volume (m³/min)	3	6.57
Air volume (CFM)	105	230
Speed (RPM)	3000	3400
Noise (dBA)	47	53
Bearing	Ball	Ball
Housing - Diecast	Aluminium	Aluminium
Impeller	Plastic, fibreglass filled	Plastic, fibreglass filled
Connections	Solder lugs	Flylead
Other	Life - 100,000 hrs@25°C	Life - 100,000 hrs@25°C

▲ Voltage	Size	Cat	Qty 1+	Qty 4+	Qty 10+
240VAC	120mm	YX-2517	\$36.95	\$33.45	\$29.45
240VAC	150mm	YX-2520	\$84.95	\$76.50	\$67.95

FAN ESSENTIALS AND ACCESSORIES

• Suits YX-2514, YX-2516 & YX-2517

Fan Power Lead

Use with our 240VAC fans with two lugs for power connection. Moulded plug to suit fan one end, and bare wires at the other.



▲ Length	Cat	Qty 1+	Qty 4+	Qty 10+
1.2m	PS-4160	\$3.95	\$3.45	\$3.15

Plastic Fan Guard / Filter Kits

Foam filter prevents dust particles entering the fan. Rated to UL 94V-0.

- We recommend periodic cleaning of the foam filter to prevent clogging and restricting air flow.
- Available in 3 sizes.



▲ Width	Cat	Qty 1+	Qty 4+	Qty 10+
60mm	YX-2550	\$6.95	\$6.25	\$5.50
80mm	YX-2552	\$6.95	\$6.25	\$5.50
120mm	YX-2554	\$7.95	\$6.95	\$6.25

Fan Finger Guards

80mm Fans



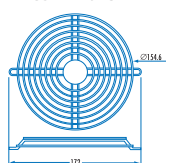
YX-2511

120mm Fans



YX-2515

150mm Fans



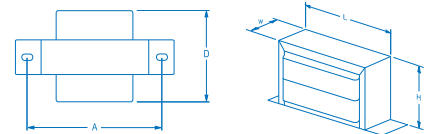
YX-2525

▲ Width	Cat	Qty 1+	Qty 4+	Qty 10+
80mm	YX-2511	\$3.95	\$3.45	\$3.15
120mm	YX-2515	\$4.95	\$4.45	\$3.90
150mm	YX-2525	\$8.95	\$7.95	\$6.95

QUICK REFERENCE TRANSFORMER SELECTION

COMPARISON GUIDE

Our range of transformers have not changed much over the years. We have two major categories Power EI Core and Power Toroidals. This table gives an overview with key technical specifications for easy reference and selection.



Power EI Core

Type	VA	Primary		Secondary				Connection		Dimensions (mm)					Weight (kg)	Cat No.	Page
		Voltage (V)	Internal Thermal Fuse	Voltage (V)	Current (mA, A)	Winding	Regulation (%)	Primary	Secondary	A	D	L	W	H			
2840	1.35	240	Yes	9, 4.5	150mA	Centre Tapped	9	Fly Leads	Fly Leads	45	32	37	16	32	0.120	MM-2017	247
2854	3.6	240	Yes	24, 12	150mA	Centre Tapped	12	Fly Leads	Fly Leads	53	41	43	22	36	0.230	MM-2018	247
2851	1.9	240	Yes	12.6, 6.3	150mA	Centre Tapped	8	Fly Leads	Fly Leads	46	32	37	16	32	0.112	MM-2006	247
2855	4.5	240	Yes	30, 15	150mA	Centre Tapped	8	Fly Leads	Fly Leads	53	44	43	28	36	0.280	MM-2007	248
2853	7	240	Yes	12.6, 6.3	500mA	Centre Tapped	10	Fly Leads	Fly Leads	61	38	51	20	43	0.310	MM-2013	248
2155	15	240	Yes	15, 12.6, 9.5, 8.5, 7.5, 6.3	1A	Multi-Tapped	10	Fly Leads	Solder Lugs	72	52	59	32	51	0.665	MM-2002	248
6672	30	240	Yes	30, 27.5, 24, 20, 17.5, 15	1A	Multi-Tapped	11	Fly Leads	Solder Lugs	85	62	69	35	59	0.924	MM-2008	248
2165	60	240	Yes	30, 24, 21, 18, 15, 12, 9	2A	Multi-Tapped	8	Fly Leads	Solder Lugs	85	65	69	35	59	0.995	MM-2005	248
2154	18	240	Yes	18, 15, 12	1A	Multi-Tapped	8	Fly Leads	Solder Lugs	72	56	59	32	51	0.650	MM-2011	248
2167L	60	240	Yes	(12, 9) (x2)	2.5A (x2)	Multi-Tapped/Dual	10	Fly Leads	Solder Lugs	82	76	69	48	59	1.30	MM-2014	248
2156	30	240	Yes	15, 12, 9, 6	2A	Multi-Tapped	10	Fly Leads	Solder Lugs	82	60	69	35	59	0.92	MM-2004	248
2158	72	240	Yes	24	3A	Single	9	Fly Leads	Fly Leads	82	76	69	48	59	1.30	MM-2012	248
2170	100	240	Yes	(15, 12) (x2)	3A (x2)	Multi-Tapped/Dual	7	Fly Leads	Solder Lugs	91	76	80	44	68	1.60	MM-2015	248

Note 1: All EI Core Transformer Fly Leads 200mm

Note 2: The dual winding models can be connected in parallel to obtain twice the output current. The windings must be connected in phase.

Power Toroidals

VA	Primary		Secondary				Connection		Dimensions (mm)			Weight (kg)	Cat No.	Page No.
	Voltage (V)	Internal Thermal Fuse	Voltage (V)	Current (mA, A)	Winding	Regulation (%)	Primary	Secondary	OD	ID	H			
20	240	Yes	9 (x2)	1.11A (x2)	Dual	14	Fly Leads	Fly Leads	75	27	32	0.51	MT-2082	249
20	240	Yes	12 (x2)	0.83A (x2)	Dual	14	Fly Leads	Fly Leads	75	27	32	0.51	MT-2084	249
20	240	Yes	15 (x2)	0.66A (x2)	Dual	15	Fly Leads	Fly Leads	75	27	32	0.51	MT-2086	249
160	240	Yes	12 (x2)	6.66A (x2)	Dual	10	Fly Leads	Fly Leads	110	34	44	1.80	MT-2112	249

Note 1: All Toroidal Transformer Fly Leads 150mm.

Note 2: The secondary windings can be connected in parallel to obtain twice the output current. The windings must be connected in phase.

A NOTE REGARDING POWER TRANSFORMERS

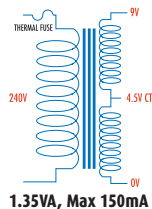
In the early days of electricity (mid-late nineteenth century) when Thomas Edison was credited with the invention of the light bulb, he felt that DC (direct current) was the way to go to distribute power around the country. An employee, Nikola Tesla, however, disagreed. He realised, for good technical reasons that AC was technically superior. One of the main reasons for this, is that you cannot use a transformer to convert one DC

voltage to another. This is easily done, of course, with a transformer for AC. The transformer has now been with us for almost 150 years and is one of the most useful electrical components ever invented. Thank you Mr. Tesla for prevailing. Jaycar proudly carries an extensive range of these humble but essential products.

TRANSFORMERS

9V, 1.35VA, 150mA Centre Tapped
TYPE 2840

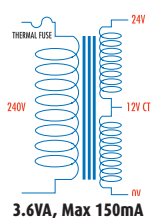
MM-2017



1.35VA, Max 150mA

24V, 3.6VA, 150mA Centre Tapped
TYPE 2854

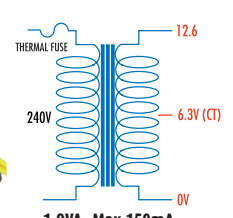
MM-2018



3.6VA, Max 150mA

12.6V CT, 1.9VA, 150mA Centre Tapped
TYPE 2851

MM-2006



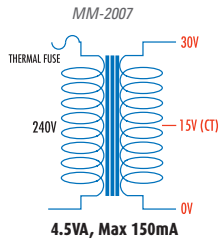
1.9VA, Max 150mA

SPECIFICATIONS	MM-2017	MM-2018	MM-2006
Type	2840	2854	2851
Secondary winding (s)	Centre Tapped	Centre Tapped	Centre Tapped
Primary voltage	240VAC	240VAC	240VAC
Total VA rating	1.35VA	3.6VA	1.9VA
Secondary voltages	9V, 4.5V (CT)	24V, 12V (CT)	12.6V, 6.3V(CT)
Secondary current (max)	150mA	150mA	150mA
Magnetising current	30mA	40mA	15mA
Temp rise above ambient at rated power	60°C	65°C	40°C
Regulation	9%	12%	8%
Weight	120g	230g	112g
Primary connection	200mm Fly leads	200mm Fly leads	200mm Fly leads
Secondary connection	200mm Fly leads	200mm Fly leads	200mm Fly leads
Conforms to AS/NZ 61558.2.6	Yes	Yes	Yes
Dimensions (mm)	A45, D32, L37, W16, H32	A53, D41, L43, W22, H36	A46, D32, L37, W16, H32

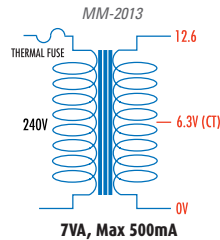
▲ Voltage	Cat.	Qty 1+	Qty 2+	Qty 4+
9V	MM-2017	\$7.95	\$6.95	\$6.25
24V	MM-2018	\$8.95	\$7.95	\$6.95
12.6V	MM-2006	\$7.95	\$6.95	\$6.25

TRANSFORMERS (CONTINUED)

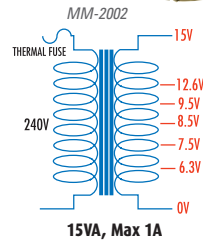
**30V CT, 4.5VA, 150mA
Centre Tapped
TYPE 2855**



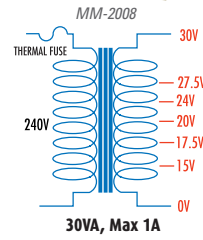
**12.6V CT, 7VA, 500mA
Centre Tapped
TYPE 2853**



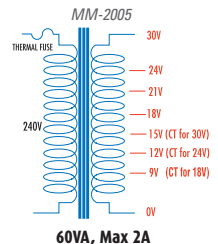
**6.3 - 15V, 15VA,
1A Multi-Tapped
TYPE 2155**



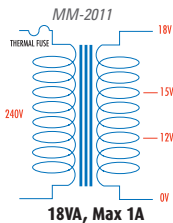
**15 - 30V, 30VA, 1A
Multi-Tapped
TYPE 6672**



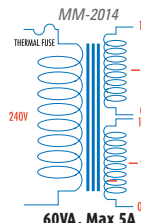
**9 - 30V, 60VA,
2A Multi-Tapped
TYPE 2165**



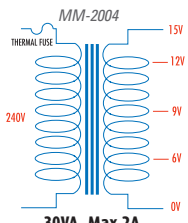
**12V - 18V, 18VA,
1A Multi-Tapped
TYPE 2154**



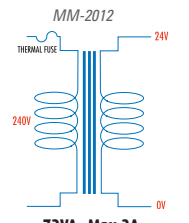
**9V - 24V, 60VA,
5A Multi-Tapped/Dual
TYPE 2167L**



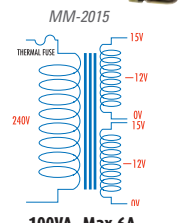
**6 - 15V, 30VA,
2A Multi-Tapped
TYPE 2156**



**24V, 72VA,
3A Single Winding
TYPE 2158**



**12V - 30V, 100VA,
6A Multi-Tapped/Dual
TYPE 2170**



SPECIFICATIONS	MM-2007	MM-2013	MM-2002	MM-2008	MM-2005
Type	2855	2853	2155	6672	2165
Secondary winding (s)	Centre Tapped	Centre Tapped	Multi-Tapped	Multi-Tapped	Multi-Tapped
Primary voltage	240VAC	240VAC	240VAC	240VAC	240VAC
Total VA rating	4.5VA	7VA	15VA	30VA	60VA
Secondary voltages	30V, 15V(CT)	12.6V, 6.3V(CT)	15V, 12.6V, 9.5V, 8.5V, 7.5V(CT), 6.3V(CT)	30V, 27.5V, 24V, 20V, 17.5V, 15V(CT)	30V, 24V, 21V, 18V, 15V(CT), 12V(CT), 9V(CT)
Secondary current (max)	150mA	500mA	1A	1A	2A
Magnetising current	40mA	40mA	30mA	40mA	60mA
Temp rise above ambient at rated power	40°C	40°C	45°C	60°C	60°C
Regulation	8%	10%	10%	11%	8%
Weight	280g	310g	665g	924g	955g
Primary connection	200mm Fly leads	200mm Fly leads	200mm Fly leads	200mm Fly leads	200mm Fly leads
Secondary connection	200mm Fly leads	200mm Fly leads	Solder lugs	Solder lugs	Solder lugs
Conforms to AS/NZ 61558.2.6	Yes	Yes	Yes	Yes	Yes
Dimensions (mm)	A53, D44, L43, W28, H36	A61, D38, L51, W20, H43	A72, D52, L59, W32, H51	A85, D62, L69, W35, H59	A85, D65, L69, W35, H59
SPECIFICATIONS	MM-2011	MM-2014	MM-2004	MM-2012	MM-2015
Type	2154	2167L	2156	2158	2170
Secondary winding (s)	Multi-Tapped	Multi-Tapped/dual	Multi-Tapped	Single	Multi-Tapped/dual
Primary voltage	240VAC	240VAC	240VAC	240VAC	240VAC
Total VA rating	18VA	60VA	30VA	72VA	100VA
Secondary voltages	18V, 15V, 12V	12V, 9V (x2)	15V, 12V, 9V, 6V(CT)	24V	15V, 12V(x2)
Secondary current (max)	1A	2.5A (x2)	2A	3A	3A (x2)
Magnetising current	40mA	65mA	60mA	60mA	80mA
Temp rise above ambient at rated power	60°C	65°C	60°C	65°C	70°C
Regulation	8%	10%	10%	10%	7%
Weight	650g	1300g	920g	1300g	1600g
Primary connection	200mm Fly leads	200mm Fly leads	200mm Fly leads	200mm Fly leads	200mm Fly leads
Secondary connection	Solder lugs	Solder lugs	Solder lugs	200mm Fly leads	Solder lugs
Conforms to AS/NZ 61558.2.6	Yes	Yes	Yes	Yes	Yes
Dimensions (mm)	A72, D56, L59, W32, H51	A82, D76, L69, W48, H59	A82, D60, L69, W35, H59	A82, D76, L69, W48, H59	A91, D76, L80, W44, H68

▲ Voltage	Cat.	Qty 1+	Qty 2+	Qty 4+
30V	MM-2007	\$8.95	\$7.95	\$6.95
12.6V	MM-2013	\$9.95	\$8.75	\$7.75
6.3-15V	MM-2002	\$11.95	\$10.70	\$9.50
15-30V	MM-2008	\$18.95	\$16.95	\$14.95
9-30V	MM-2005	\$27.95	\$24.95	\$22.35

▲ Voltage	Cat.	Qty 1+	Qty 2+	Qty 4+
12-18V	MM-2011	\$11.95	\$10.70	\$9.50
9-24V	MM-2014	\$27.95	\$24.95	\$22.35
6-15V	MM-2004	\$18.95	\$16.95	\$14.95
24V	MM-2012	\$27.95	\$24.95	\$22.35
12-30V	MM-2015	\$29.95	\$26.95	\$23.95

RELATED PRODUCTS

Build Your Own Coils and Transformers Book

This book is a wealth of information, ideal for hobbyist or anybody interested in winding their own transformers. After the introduction the book covers attributes of coils/transformers, mutual inductance, reactance, resonance, impedance, coil selectivity. It then goes on to the design aspects - discussing coils in tuning circuits, types of formers and cores, types of winding, self capacity, equations, coil design, design of IF transformers then output and power transformers.

• 55 pages 137 x 212 mm.



▲	Cat.	Qty 1+
	BM-2440	\$7.95

TOROIDALS

WHY A TOROID?

- Smaller size and weight to meet modern 'slimline' requirements
- Low electrically induced noise demanded by compact equipment
- High efficiency enabling conservative rating whilst maintaining size advantages
- Simple, quick, single bolt mounting

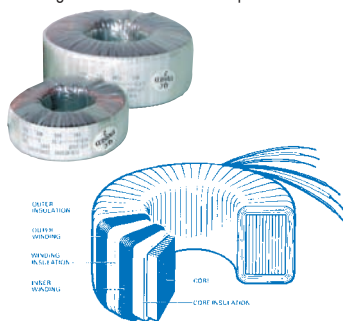
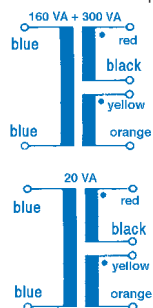


The Toroidal transformer is now accepted as the standard in the industry, quality made to ISO 9000 overtaking the obsolete laminated type. Industry has been quick to recognise the advantage toroidals offer in size, weight and lower radiated field.

Current ratings on toroidal transformers. Can be used in 2 ways:

- A) both secondary windings in series - double the volts
B) both secondary windings in parallel - double the amps.

Note: If connected in parallel, the windings must be connected in phase.



20VA LOW PROFILE • Dimensions: O/D 75, I/D 27 x 32mm
The height is only 32mm, which means they will fit into a 44mm rack case.

Cat.	Secondary Series	Secondary Parallel
MT-2082	9+9V	1.11A
MT-2084	12+12V	0.833A
MT-2086	15+15V	0.666A

▲		Cat.	Qty 1+	Qty 2+	Qty 4+
	9V 20VA	MT-2082	\$29.95	\$26.95	\$23.95
	12V 20VA	MT-2084	\$24.95	\$22.45	\$19.95
	15V 20VA	MT-2086	\$24.95	\$22.45	\$19.95

160VA TOROIDS • Dimensions: 110 O/D x 34 I/D x 44(H)mm

Cat.	Secondary Series	Secondary Parallel
MT-2112	12+12V	6.66A

▲		Cat.	Qty 1+	Qty 2+	Qty 4+
	12V 160VA	MT-2112	\$54.95	\$49.45	\$43.90

STROBE GLOBE & TRIGGER

Miniature Strobe Trigger Transformer

- Used to trigger small XENON discharge lamps.
• Can be used with SL-2692 Strobe Tube
• Dimensions: 10(L) x 7(Ø)mm



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	MM-2520	\$1.95	\$1.75	\$1.55

XENON Replacement Globe

Suits common party strobe lights with a Xenon tube. Can be used with MM-2520 Trigger Transformer.

- Design power: 6W
- Design voltage: 500V
- Min trigger voltage: 210V
- Sec trigger voltage: 6kV
- Glass dimensions: 32(H) x 5(Dia.)mm
- Max voltage: 550V
- Min voltage: 200V
- Flash frequency: 0.4 - 4Hz
- Lifespan: Up to 3 million flashes



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SL-2692	\$5.95	\$5.35	\$4.75

Pressboard Insulation Material

Similar to Presspahn Elephantide®, this product is a heavily pressed craft-type board which is used as an insulator in mains products. It can be scored, folded and formed into many shapes, particularly into boxes or partitions to isolate mains circuits from fingers. It has good abrasion resistance and is often used in areas where chafing from vibration can occur.

- Thermal Rating: 150°C
- Dielectric Strength: 12kV/mm.
- Sheet thickness: 0.8mm
- Sheet dimensions: 225(H) x 208(W)mm.



NERD PERKS
2x POINTS

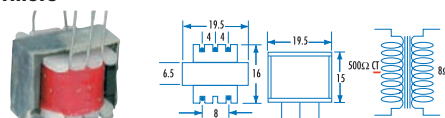
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HG-9985	\$4.95	\$4.45	\$3.90

MINIATURE TRANSFORMERS

Miniature Transformers

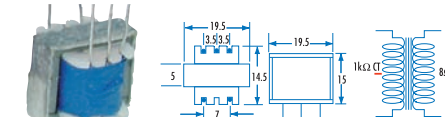
MINIATURE OUTPUT

- Primary/secondary 500 ohms ct/8 ohms
- Iron core
- 450mW rating.



STANDARD

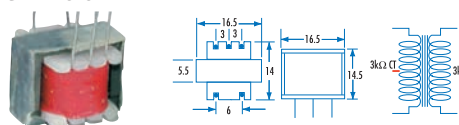
- Primary/secondary 1k ohm ct/8 ohms
- 350mW rating.



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	Miniature MM-2530	\$5.95	\$5.25	\$4.75
	Standard MM-2532	\$4.95	\$4.45	\$3.90

MINIATURE COUPLING TRANSFORMER

- 3k ohm CT//3k
- Iron core.



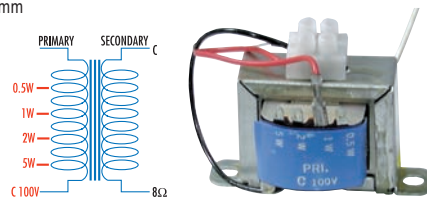
▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	Miniature MM-2534	\$4.95	\$4.45	\$3.90

SPEAKER TRANSFORMER

5W Line Speaker Transformer

Designed to tap 100V (or 70V 1/2 power) public address amplifier lines to use an 8Ω speaker. Made with grain oriented steel for good frequency response. Good dynamic range. Primary taps enable you to select power level for 8Ω speaker. Connect primary to C (100V) and tap for whatever sound level is required from 0.5-5WRMS.

Supplied with terminal block mounted on top of transformer.
Mounting hole centres 53mm



Primary	Power
20k	0.5W
10k	1W
5k	2W
2.5k	5W

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	MM-1900	\$10.95	\$9.75	\$8.75

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store*
& be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

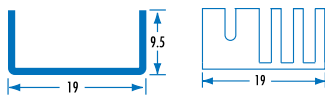
*Conditions apply. See front of catalogue for details



HEATSINKS & ACCESSORIES

TO-220 Mini (6073B Type)

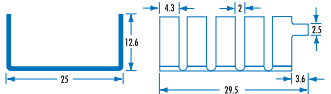
• Equivalent to popular 6073 type.



▲ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
20°C/W	HH-8502	\$0.85	\$0.75	\$0.65

TO-220 (6021 Type)

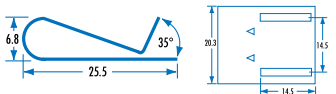
• Solderable PCB mounting pins



▲ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
12°C/W	HH-8504	\$1.45	\$1.30	\$1.15

TO-220 Clip-on (6043 Type)

The heatsink will just clip over a device when required for permanent or temporary installation.



▲ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
30°C/W	HH-8503	\$1.20	\$1.05	\$0.95

TO-220

These PCB mount heatsinks have two 'screw flute' channels to aid in fastening to a board or surface.

• 16(W) x 21.8(D) x 10(H)mm



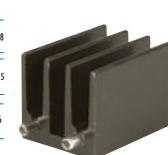
▲ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
30°C/W	HH-8514	\$1.75	\$1.55	\$1.40

TO-220

Same dimensions as our HH-8514 only with longer fins. These PCB mount heatsinks have two tinned pins to aid in fastening the sink to a board or surface.

• 16(W) x 21.8(D) x 15.8(H)mm

• Pins 2mm dia. x 3mm long



▲ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
19°C/W	HH-8516	\$1.55	\$1.35	\$1.20

25% Silver Heatsink Compound - 1.5 Gram Tube

Contains 25% Silver for more efficient heat transfer. Ready to use syringe. Please note that Silver Heatsink Compound does conduct electricity and care should be taken when being used.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5g Tube	NM-2013	\$5.95	\$5.25	\$4.75

Heatsink Compound - 3g Syringe with Applicator

Features Nano Diamond for high thermal conductivity. It is electrically insulated so that you can apply to all electronic components and IC's and protects from short circuits.

- Instant conductivity
- Complete insulation
- Thermal conductivity: >3.8W/m-K
- Thermal resistance: <0.087°C-in 2/W
- Specific resistance: >2.4
- Operating temperature: -50°C-240°C



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
3g Tube	NM-2018	\$7.95	\$7.15	\$6.25

Heatsink Compound - Adhesive

Non electrically conductive. One 5 gram tube will adhere up to 16 TO-3 package transistors.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
5g Tube	NM-2014	\$7.95	\$7.15	\$6.25

PC Mount TO-3P

Will accept up to TO-3P size flat pack transistors. (This includes TO-220). Includes 2 PC pins, which help stabilise the heatsink and allow you to solder to PCB pads.

25MM HIGH (6098 TYPE)

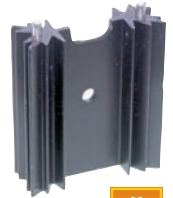
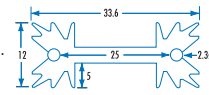
• Size 33.6(W) x 12(D) x 25(H)mm.

Cat. HH-8520

40MM HIGH (6099 TYPE)

• Size 33.6(W) x 12(D) x 40(H)mm.

Cat. HH-8522

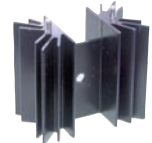
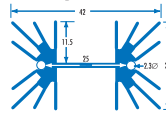


▲ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
17°C/W	HH-8520	\$1.55	\$1.35	\$1.20
11°C/W	HH-8522	\$2.65	\$2.30	\$1.95

Heavy Duty TO-3P (ML97 Type)

Heavy duty version of the heatsinks described above.

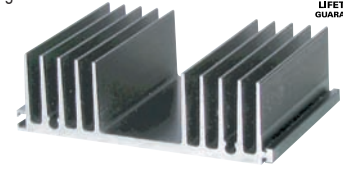
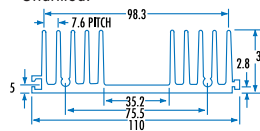
- Solderable screw studs.
- Size 42(W) x 25(D) x 38(H)mm



▲ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
7.5°C/W	HH-8526	\$2.75	\$2.45	\$2.15

Versatile Heavy Duty

- Allows horizontal & vertical mounting.
- Length 72mm
- Undrilled.

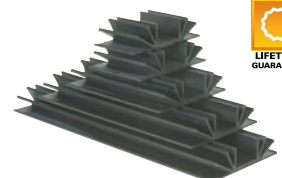
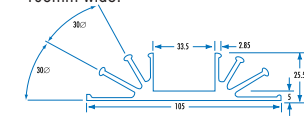


▲ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
2.2°C/W	HH-8566	\$14.95	\$13.35	\$11.70

High Efficiency Fan Type

Available in various lengths.

• 105mm wide.



▲ Length	Thermal resist.	Cat.	Qty 1+	Qty 4+	Qty 10+
55mm	2.5°C/W	HH-8570	\$5.95	\$5.25	\$4.75
72mm	2.2°C/W	HH-8572	\$8.95	\$7.95	\$6.95
135mm	1.1°C/W	HH-8573	\$11.95	\$10.70	\$9.50

Heatsink Compound

Heat conducting paste facilitates heat transfer from semiconductors to heatsinks. One 10g tube will do up to 30 TO-3 package transistors.

• Non electrically conductive



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
10g Tube	NM-2010	\$3.95	\$3.45	\$3.15
50g Syringe	NM-2011	\$9.95	\$8.75	\$7.75
150g Tube	NM-2012	\$19.95	\$17.70	\$15.70

Thermal Transfer Tape 100 x 100 x 0.5mm - Pkt 2

When it comes to attaching devices like star LED modules to heatsinks, it's often not easy because they don't have screw 'eyes' like a TO220 transistor package. Using this thermal transfer tape, it's a breeze. The material is self adhesive and provides good thermal conductivity making it easy for chipsets, LED modules, memory modules etc. 2pcs of 100mm x 100mm sheets supplied. Just cut to size. 0.5mm thickness.

SPECIFICATIONS	NM-2790
Thermal Conductivity	1.6 W/m-k
Flammability Level	UL94V-0
Working Temperature Range	-60 ~ +250°C
Insulation Strength	>7,000V/mm

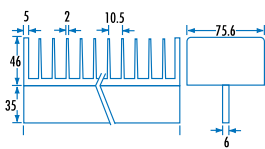


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	NM-2790	\$12.95	\$11.35	\$10.35

HEATSINKS & ACCESSORIES (CONTINUED)

Diecast

- Dimensions: 150(L) x 75(H) x 46(D)mm



▲ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
No Bracket 1.2°C/W	HH-8555	\$19.95	\$17.95	\$15.95

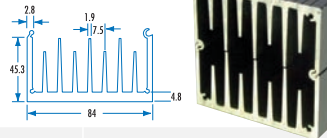
Fan Assisted-Type Heatsink

This heatsink is designed to mate with itself to form a tunnel. The heatsink extrusion has a screw flute centre to enable 4 x No.6 self-tapping screws to fasten an 80mm standard type fan on one (or both) end/s to drive air through the heatsink assembly. It is ideal for high power amplifiers and power supplies. The entire assembly, including fan/s can still fit inside a 2 x Rackunit (88mm) enclosure. The heatsink also features ribbed fins for extra surface area, a 4mm thick base to enable thread tapping and small vee grooves on 5mm centres to facilitate mounting hole location. The centre groove, for example, is directly below the middle fin.

- Two standard lengths are available, black anodised.

Suitable fans are YX-2512 (12VDC) or YX-2510 (240VAC).

Note: Two heatsinks pictured



Thermal Characteristics				
Assembly Type	Cooling Mode	Rating (approx)		
Single Length	Convection	0.83°C/W		
Tunnel Assembly	Convection	0.70°C/W		
Tunnel Assembly	Fan Assisted (single)	0.35°C/W		
Tunnel Assembly	Fan Assisted (dual)	0.30°C/W		



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
Length 225mm	HH-8530	\$24.95	\$22.35	\$19.70
Length 254mm	HH-8532	\$27.95	\$24.95	\$22.35

INLINE FUSE HOLDERS

3AG

Plastic in-line type.

- As used on car radios, CB, etc.
- Takes 3AG fuses.
- Low volt DC only
- 5A max.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2015	\$1.75	\$1.55	\$1.40

3AG Moistureproof Fuseholder

Two rubber parts push together over the fuse to keep moisture out. Ideal for boats, cars etc.

- Cable needs to be soldered on, crimped to end parts.
- Could be made virtually waterproof with some silicone sealant.
- Low volt DC only / 10A max

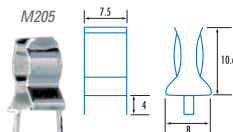
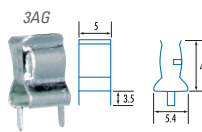


▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2014	\$2.50	\$2.21	\$1.95

PCB MOUNT FUSE HOLDERS

Fuse Clips

- Nickel plated
- PCB mount



▲	Pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
M205	8	SZ-2018	\$2.75	\$2.45	\$2.15
M205	100	SZ-2019	\$18.95	\$16.95	\$14.95
3AG	8	SZ-2022	\$2.75	\$2.45	\$2.15
3AG	100	SZ-2023	\$18.95	\$16.95	\$14.95

M205 PCB Mount Fuse Holder

PCB mounting M205 fuse holder. Supplied with screw cover to hold fuse in place.

- Max Fuse: 6.3A @ 250VAC



▲ Mount	Cat.	Qty 1+	Qty 10+	Qty 25+
Vertical	SZ-2038	\$3.50	\$3.15	\$2.75
Horizontal	SZ-2039	\$3.50	\$3.15	\$2.75

Heatsink Pin Grid Array with Adhesive Thermal Transfer Tape

This heatsink makes a perfect partner to Star LED modules. It doesn't get quicker or easier than this! Just peel the backing from the pre-mounted thermal transfer tape, press the Star LED (or whatever device) to the heatsink and SHAZAM!! It's ready to go! Don't be fooled by the compact size. The "pin grid array" design provides excellent low thermal resistance and heat dissipation. Sold individually.



- Dimensions: 21(L) x 21(W) x 6.2(H)mm

▲ Thermal resistance	Cat.	Qty 1+	Qty 4+	Qty 10+
5.9°C/W	HH-8580	\$3.25	\$2.90	\$2.60

Transistor Clamps

To clamp (TO-220) devices to a heatsink.



▲		Cat.	Qty 1+	Qty 10+	Qty 50+
Single TO-220 Transistor Clamps	Pk 10	HH-8600	\$8.95	\$7.95	\$6.95
Single TO-220 Transistor Clamps	Pk 100	HH-8602	\$24.95	\$22.35	\$19.70
Dual TO-220 Transistor Clamps	Pk 100	HH-8607	\$19.95	\$17.70	\$13.70
Dual TO-220 Transistor Clamp	ea	HH-8610	\$1.45	\$1.30	\$1.15

For really High Current Fuses & Fuse Holders see page 42

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

3AG 20A High Current

If you want to fuse something higher than 5 amp you will need this holder.

- Super strong plastic holder
- Supplied with cable loop.
- Simply cut and join to existing cables.
- Low volt DC only



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2016	\$3.50	\$3.15	\$2.75

5AG 60 Amp

For high-powered car sound systems.

- Accepts 5AG fuse.
- 80(L) x 19(D)mm.
- Supplied with a small length of cable, simply cut and join in line.
- Low volt DC only

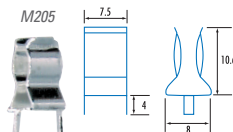
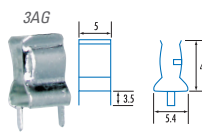


▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2065	\$8.95	\$8.05	\$7.15

PCB MOUNT FUSE HOLDERS

Fuse Clips

- Nickel plated
- PCB mount



▲	Pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
M205	8	SZ-2018	\$2.75	\$2.45	\$2.15
M205	100	SZ-2019	\$18.95	\$16.95	\$14.95
3AG	8	SZ-2022	\$2.75	\$2.45	\$2.15
3AG	100	SZ-2023	\$18.95	\$16.95	\$14.95

M205 PCB Mount Fuse Holder

PCB mounting M205 fuse holder. Supplied with screw cover to hold fuse in place.

- Max Fuse: 6.3A @ 250VAC



▲ Mount	Cat.	Qty 1+	Qty 10+	Qty 25+
Vertical	SZ-2038	\$3.50	\$3.15	\$2.75
Horizontal	SZ-2039	\$3.50	\$3.15	\$2.75

For Circuit Breakers see page 254

6 Way 3AG Fuse Block with Blown Indicators

Individual LEDs illuminate when fuses are blown so you can check things at a glance. The clear cover keeps everything protected and 60 stickers are included for common applications to assist with identification. Holds standard 3AG fuses..



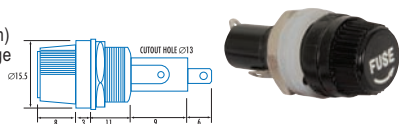
SPECIFICATIONS	SZ-2021
Operating Voltage	32VDC Max
Max Fuse Current	30A
Max Block Current	100A cumulative
Dimensions	129(H) x 91(W)mm

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
3AG	6 Way	SZ-2021	\$39.95	\$35.95	\$31.95

PANEL FUSE HOLDERS

M205 - Low Volt Only

- Takes M205 fuses (20 x 5mm)
- Recommended for low voltage DC side circuits only
- Panel hole 13mm.
- 6.3A 240V max.

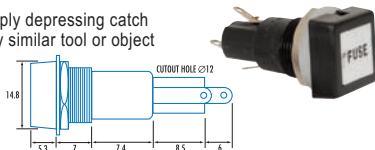


▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2030	\$1.95	\$1.75	\$1.55

M205 - Safe

Fuse retainer is released by simply depressing catch by inserting a screwdriver or any similar tool or object into the small rectangular hole on top of the fuseholder.

- Panel hole 12mm.
- 6.3A 240V max.

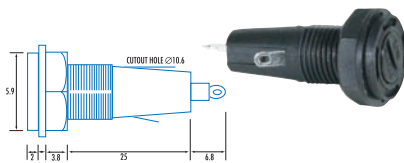


▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2034	\$1.95	\$1.75	\$1.55

M205 - Very Safe

6.3A 250V.

- Panel hole 11mm.
- Fits M205 size fuses
- Screwdriver cover removal
- Fingers cannot touch metal inside

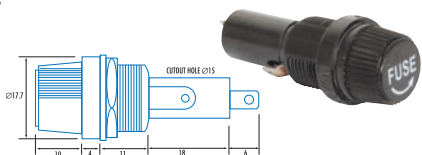


▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2028	\$2.75	\$2.45	\$2.15

3AG - Low Volt Only

10A 250V.

- Accepts 3AG fuses.
- Panel hole 15mm.
- Recommended for low voltage or DC side circuits only.

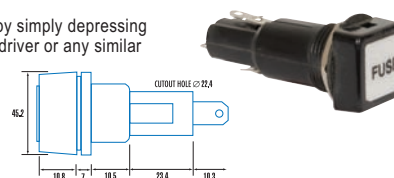


▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2020	\$1.95	\$1.75	\$1.55

3AG - Safe

Fuse retainer is released by simply depressing catch by inserting a screwdriver or any similar tool or object in to the small rectangular hole on top of the fuseholder.

- Panel hole 15mm.
- 10A 250V

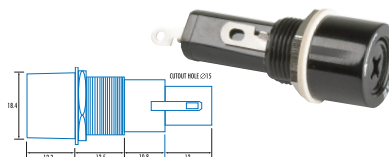


▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2036	\$2.75	\$2.45	\$2.15

3AG - Very Safe

3AG 10 amp 240V chassis mount (32 x 6.35 mm)

- Screwdriver cover removal
- Fingers cannot touch metal inside
- 10A 250V

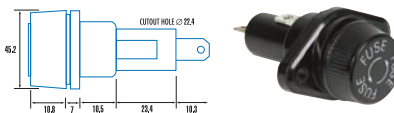


▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2025	\$2.95	\$2.60	\$2.30

5AG - Low Volt Only

Panel mounting fuse holder, screw cap style. Suits 5AG sized fuses up to 30A current rating.

- Low voltage only



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2029	\$4.95	\$4.45	\$3.90



For High Current (DC only) Wiring Connector Blocks see page 41

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!

FUSE HOLDERS

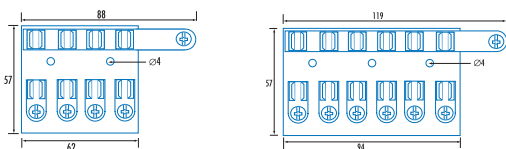
Fuse Gang Blocks

All have natural brass contacts riveted to a fibreglass filled nylon board. Both can be easily split into modules of two. Ideal for automotive, aircraft, marine or other low voltage applications.

- 4 & 6 Way with power/ earth bus.
- Accepts 3AG type fuses
- Plated screw terminals
- Can be safely screwed to a metal surface (low voltage only)
- 15A max. all models



SZ-2006

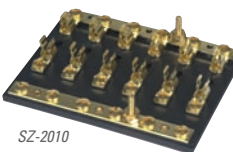


▲	Size	Cat.	Qty 1+	Qty 10+	Qty 25+
	4 way 57 x 60mm	SZ-2006	\$11.95	\$10.75	\$9.55
	6 way 57 x 90mm	SZ-2007	\$12.95	\$11.35	\$10.35

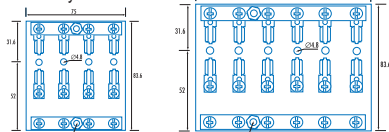
Double BusBar for 3AG Fuses

One bus connected to one side of fuse clip. This could be, say, to +12V. The other side of the clip is riveted to the board and has a brass power screw termination. You could wire to your application and return to the other busbar for say, earth. We recommend that this board is stood off from a metal bulkhead for extra electrical safety.

- Accepts 3AG fuses.
- 15A max. all models



SZ-2010



▲	Size	Cat.	Qty 1+	Qty 10+	Qty 25+
	4 way 83 x 75mm	SZ-2009	\$17.95	\$15.95	\$14.35
	6 way 83 x 100mm	SZ-2010	\$19.95	\$17.95	\$15.95

Marine Grade Illuminated Switch Panels with Circuit Breakers

An economical solution to controlling multiple DC circuits on your boat, or any other application where you want to switch multiple DC circuits. Each switch panel is an attractive moulded ABS plate, with high quality 10A rated illuminated rocker switches and re-settable circuit breakers on each circuit. Power is supplied on a common rail to keep wiring neater, and wiring connections are made with standard spade terminals. Two versions available:

4 Way - Dimensions 110(H) x 100(W) x 45(D)mm

Cat. SZ-1902

6 Way - Dimensions 160(H) x 100(W) x 45(D)mm

Cat. SZ-1903



▲	Size	Cat.	Qty 1+	Qty 10+	Qty 25+
	4 Way	SZ-1902	\$39.95	\$35.95	\$31.95
	6 Way	SZ-1903	\$49.95	\$44.95	\$39.95

IP66 Marine Switch Panels with Circuit Breakers

These units feature the attractive tactile rocker switches that are common on luxury Australian and foreign made motor cruisers. The panels have Butyl rubber gaskets and IP66 water resistant rated switches and circuit breakers, making these switch panels suitable for an exposed environment. They are pre-wired as much as possible, with wiring connections made via standard spade terminals for ease. Both require about 80mm of space behind the mounting bulkhead. The 4 way has 6, 10, 15 & 20A rated circuit breakers and the 6 way has 6, 6, 10, 10, 15 & 20A breakers, and the switches feature LED illumination to let you know which circuit is active.

- Moulded from ABS plastic.

Two versions available:

4 Way: 120(H) x 130(W)mm

6 Way: 170(H) x 130(W)mm



▲	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
	4 Way	SZ-1906	\$69.95	\$62.95	\$55.95
	6 Way	SZ-1907	\$99.95	\$89.95	\$79.95

M205 FUSES - 20 x 5MM**M205 Fast Blow**

100mA Cat. SF-2148	1A Cat. SF-2158
160mA Cat. SF-2152	1.25A Cat. SF-2159
200mA Cat. SF-2153	2A Cat. SF-2160
250mA Cat. SF-2154	1.6A Cat. SF-2161
315mA Cat. SF-2155	2.5A Cat. SF-2169
500mA Cat. SF-2156	3A Cat. SF-2162
800mA Cat. SF-2157	3.15A Cat. SF-2163

Quantity breaks for one type only

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	All Types / Each	\$0.40	\$0.35	\$0.30



4A Cat. SF-2164
5A Cat. SF-2166
6.5A Cat. SF-2167
10A Cat. SF-2168

M205 Slow Blow

Slow blow M205 size glass fuses. Rated voltage 250VAC. Dimensions 20(L) x 5(Dia)mm

500mA Cat. SF-2170	2A Cat. SF-2174	4A Cat. SF-2175
1A Cat. SF-2173	3A Cat. SF-2176	5A Cat. SF-2178
1.5A Cat. SF-2177	3.15A Cat. SF-2177	10A Cat. SF-2179

Quantity breaks for one type only

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	All Types / Each	\$1.25	\$1.10	\$0.97

**WHAT DOES "AG" MEAN?**

Automotive Glass

3AG FUSES - 1/4" x 1 1/4"**3AG Fast Blow (32 x 6.35mm)**

100mA Cat. SF-2182	1.5A Cat. SF-2192
150mA Cat. SF-2184	2A Cat. SF-2194
250mA Cat. SF-2186	3A Cat. SF-2196
500mA Cat. SF-2188	4A Cat. SF-2198
630mA Cat. SF-2189	5A Cat. SF-2200
1A Cat. SF-2190	7A Cat. SF-2201

Quantity breaks for one type only

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	All Types / Each	\$0.40	\$0.35	\$0.30



7.5A Cat. SF-2202
10A Cat. SF-2204
15A Cat. SF-2206
20A Cat. SF-2208
25A Cat. SF-2210

3AG Ceramic Fast Blow

These fuses are used in microwave ovens and precision equipment. They are fast acting and rapidly respond to a fault condition. They are sand filled and their interrupting capacity is 1500A at 240VAC.

7A Cat. SF-2120	8A Cat. SF-2122	10A Cat. SF-2124
-----------------	-----------------	------------------

Quantity breaks for one type only

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	All Types / Each	\$1.25	\$1.10	\$0.97

**5AG FUSES - 3/8" x 1 1/2"****(10 x 38mm)**

- Gold plated
- Suits the gold fuse holders in the car audio section.
- Fuse size 38(L) x 10(Dia.)mm.

20A Cat. SF-1970	40A Cat. SF-1974	60A Cat. SF-1978
30A Cat. SF-1972	50A Cat. SF-1976	

Qty breaks for one type only

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	All Types / Each	\$2.25	\$1.95	\$1.80

**DMM FUSES****Fast Acting Cartridge Fuses**

As used in multimeters. Fast acting fuse designed for use in circuits with high AC fault current capacity. Listed by Underwriters Laboratories and certified by CSA.

SF-2276	1A 600V
SF-2277	1kV 10A
SF-2274	15A 600V

Spare ferrule fuses for our IP67 CAT IV rated DMMs:
SF-2278 1kV 500mA
SF-2279 1kV 800mA**FLUKE®**

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
35 x 10mm	SF-2276	\$8.95	\$7.95	\$6.95
32 x 6.35mm	SF-2279	\$9.95	\$8.75	\$7.75
32 x 6.35mm	SF-2278	\$9.95	\$8.75	\$7.75
38 x 10mm	SF-2274	\$17.95	\$15.95	\$14.35
38 x 10mm	SF-2277	\$14.95	\$13.35	\$11.70

M205 Ceramic Fast Blow

These fuses are used in microwave ovens and precision equipment. They are fast acting and rapidly respond to a fault condition. They are sand filled and their interrupting capacity is 1500A at 240VAC.

1.0A Cat. SF-2104	3.15A Cat. SF-2105	6.3A Cat. SF-2110
1.6A Cat. SF-2106	4.0A Cat. SF-2108	8A Cat. SF-2112
2.5A Cat. SF-2107	5.0A Cat. SF-2109	10A Cat. SF-2114

Quantity breaks for one type only

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	All Types / Each	\$1.25	\$1.10	\$0.97

**M205 Ceramic Slow Blow**

1.0A Cat. SF-2115	6.3A Cat. SF-2119
4A Cat. SF-2118	2.5A Cat. SF-2117
1.6A Cat. SF-2116	8A Cat. SF-2121

Quantity breaks for one type only

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	All Types / Each	\$1.25	\$1.10	\$0.97

**M205 Fuse Packs****40 FUSES**

5 x 500mA, 10 x 1A, 10 x 2A, 5 x 3A, 5 x 5A, 5 x 10A

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SF-2242	\$12.95	\$11.35	\$10.35

**3AG Slow Blow**

Slow blow 3AG size glass fuses. Rated voltage 250VAC. Dimensions 30(L) x 6(Dia)mm

1A Cat. SF-2226	3A Cat. SF-2230	7.5A Cat. SF-2233
1.5A Cat. SF-2227	4A Cat. SF-2231	10A Cat. SF-2234
2A Cat. SF-2228	5A Cat. SF-2232	

Quantity breaks for one type only

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	All Types / Each	\$1.25	\$1.10	\$0.97

**3AG Fuse Packs****40 FUSES**

The economical way to buy fuses.

Consists of: 4 x 500mA, 8 x 1A, 6 x 1.5A, 4 x 2A, 6 x 3A, 4 x 5A, 4 x 7.5A, 4 x 10A

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SF-2240	\$12.95	\$11.35	\$10.35

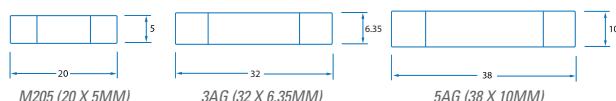
**FUSE WIRE****Fuse Wire**

Includes 8 amp for lights and 15 amp for power. An essential item to carry in the fuse box of older homes. Have it there when you need it.

+ Blade Fuses are on page 459.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SZ-2005	\$2.95	\$2.60	\$2.30

FUSE DIMENSIONS**TECH TALK****PRODUCT DATA**

We now have so much data and fact sheets we cannot fit it all here!
Check our website for over
3,500 pages of data!



CIRCUIT BREAKERS

Chassis Mount Auto Circuit Breakers

Single pole thermal circuit breaker. Auto reset.

- 12 and 24VDC in current ratings from 20 - 50A.

See page 42 for our range of high current AC & DC Circuit Breakers



▲ Amp	Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
20A	12VDC	SF-4100	\$7.95	\$6.95	\$6.25
30A	12VDC	SF-4102	\$7.95	\$6.95	\$6.25
40A	12VDC	SF-4104	\$7.95	\$6.95	\$6.25
50A	12VDC	SF-4106	\$7.95	\$6.95	\$6.25
20A	24VDC	SF-4108	\$7.95	\$6.95	\$6.25

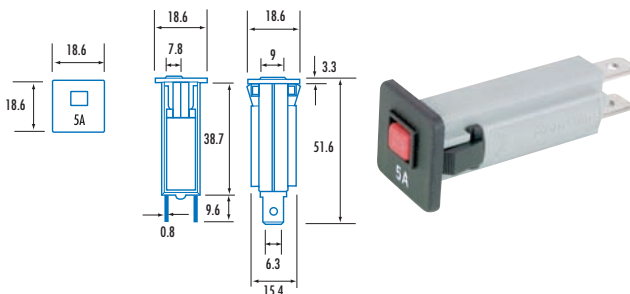
Panel Mount Thermal Circuit Breakers (CBE)

IEC 934 TYPE "R/TO"

These attractive looking units feature a black 19mm square facade with a centrally mounted bright red 'trip' button.

- When tripped, the red button extends
- To reset simply push button back in (once fault has been cleared)
- Slow response time ideal for inductive/reactive loads

SPECIFICATIONS	ALL MODELS
Hold current	100% load indefinitely
Trip current	Within 1 hour @ 135% load, Within 1 min. @ 200% load
Input	32VDC, 125VAC & 250VAC
Dielectric strength	1500VAC 1 Minute
Contact endurance	>500 cycles @ 150% of contact rating.



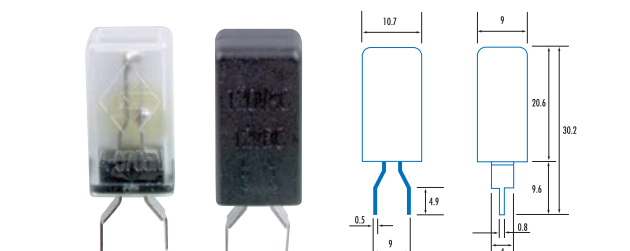
▲ Amp	Resistance (Ω)	Cat.	Qty 1+	Qty 10+	Qty 25+
3	0.16	SF-2293	\$8.95	\$7.95	\$6.95
5	0.12	SF-2295	\$8.95	\$7.95	\$6.95
7	0.075	SF-2297	\$8.95	\$7.95	\$6.95
10	0.015	SF-2300	\$8.95	\$7.95	\$6.95
15	0.008	SF-2315	\$8.95	\$7.95	\$6.95

PCB Mount Thermal Circuit Breakers (SPST)

Miniature auto-resetting thermal type units that solder directly into a PCB.

- Ideal for protecting power supplies, amplifier output transistors, appliances etc.
- Slow response time is ideal when capricious tripping would be a nuisance.
- Judicious selection of breaker rating will ensure protection without unnecessary tripping

SPECIFICATIONS	ALL MODELS
Calibration	100% rated; will not trip. (all at 25°C) 101-170% increasing likelihood of trip / 175-199% trip within 1 hour. 200% within 1 minute / 200% + from 1 minute to seconds.
Input	12VDC, 125VAC
Dielectric strength	1500VAC 1 Minute
Contact endurance	>1000 cycles, @ 150% of contact rating.



▲ Amp	Resistance (Ω)	Cat.	Qty 1+	Qty 10+	Qty 25+
1.5	0.12	SF-2281	\$6.95	\$6.25	\$5.50
3	0.075	SF-2283	\$6.95	\$6.25	\$5.50
4	0.050	SF-2284	\$6.95	\$6.25	\$5.50
5	0.050	SF-2285	\$6.95	\$6.25	\$5.50

Electrical Type Circuit Breaker

These circuit breakers are rated at 250VAC.

- Maximum voltage 250VAC or 50VDC
- Will hold 100% of rated current indefinitely at 25°C
- Derate at higher temperatures
- Manual push reset
- Insulation resistance >100MΩ
- Mounting hole diameter 12mm
- Size 46(H including terminals) x 35.7(D) x 14.6(W)mm

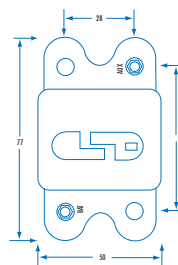


Temp °C	Typical Derating Factors		% of Rating	Time to Trip
	10-25A	2-5A		
60	0.50	-	100	Indefinite
50	0.60	-	150	< 1 hour
40	0.72	0.45	200	4.0-30.0 sec
30	0.85	0.70	300	2.5-11.0 sec
25	1.00	1.00	400	1.6-7.0 sec
20	1.10	1.20	500	0.8-2.5 sec
10	1.25	1.45	600	0.6-1.7 sec

▲ Amp	Approval	Cat.	Qty 1+	Qty 10+	Qty 25+
3	CS8389N	SF-2252	\$8.85	\$7.75	\$6.95
5	CS8389N	SF-2254	\$8.85	\$7.75	\$6.95
10	CS8389N	SF-2258	\$8.85	\$7.75	\$6.95
15	CS8389N	SF-2259	\$8.85	\$7.75	\$6.95
20	CS8389N	SF-2260	\$8.85	\$7.75	\$6.95
25	CS8389N	SF-2261	\$8.85	\$7.75	\$6.95

High Current DC Circuit Breakers

Moulded in black electrical grade bakelite, these rugged and reliable devices allow you to simply reset rather than find another expensive fuse. They offer lower voltage drop than a fuse and can be used as an occasional circuit isolation switch. Two popular current ratings. Both units have the same physical dimensions. Ideal for car sound installations. Operating voltage is 12 to 14VDC. Each device will trip within a few milliseconds under short circuit conditions and feature protective rubber caps, test button and gold plated 5mm dia. terminals.



70A 12-14VDC

Will trip within 1 minute at 90A load. Will trip within a few milliseconds under short circuit conditions. Supplied with 5mm dia gold plated terminals with captive shakeproof washer and provision for up to 1/4" mounting bolts. Protective rubber caps for terminals. Test button on top of unit enables circuit breaker to be used as switch circuit restored with simple lever action.

100A 12-14VDC

Will trip at 110A or immediately under short circuit conditions



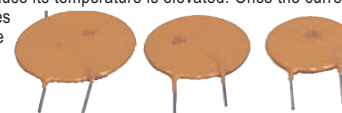
▲ Rating (A)	Resistance (Ω)	Cat.	Qty 1+	Qty 10+	Qty 25+
70	0.12	SF-2265	\$26.95	\$23.95	\$21.35
100	0.075	SF-2266	\$26.95	\$23.95	\$21.35

POLYSWITCHES

PTC Fuses - Circuit Protection

Polyswitch protectors are based on conductive polymers and act like resettable solid state circuit breakers. When the operating current of the protector is exceeded the interior of the device partially melts, which increases the volume increasing the resistance drastically. This in turn reduces the current. The device stays in this state while the current is maintained because its temperature is elevated. Once the current is removed, the device re-establishes itself almost immediately, so that the low resistance value is restored.

- Voltage ratings RN3460/62 - 60V; the rest are 50V.



Cat.	Industry Part No	Trip Watts 4Ω	6Ω	8Ω	Trip Current Amps
RN-3460	RXE075	5.1	7.7	10.2	1.50
RN-3462	RXE090	7.3	10.9	14.6	1.8
RN-3464	RXE110	10.9	16.3	21.8	2.2
RN-3466	RXE160	23.0	34.6	46.1	3.2
RN-3468	RXE185	31.4	47.0	62.7	3.7
RN-3470	RXE250	56.3	84.4	112.5	5.0

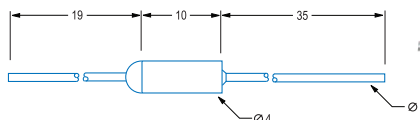
▲ Industry No.	Cat	Qty 1+	Qty 10+	Qty 25+
RXE075	RN-3460	\$2.95	\$2.60	\$2.30
RXE090	RN-3462	\$3.25	\$2.90	\$2.60
RXE110	RN-3464	\$3.50	\$3.15	\$2.75
RXE160	RN-3466	\$3.95	\$3.45	\$3.15
RXE185	RN-3468	\$3.95	\$3.45	\$3.15
RXE250	RN-3470	\$4.50	\$3.95	\$3.60

THERMAL PROTECTION

Thermal Fuses

These devices go open circuit permanently when they reach their rated temperature. They are used extensively in 240V mains rated appliances including, heaters, fan heaters, curlers, hair dryers, toasters, etc.

- UL, CSA Approved



Cat. No	Tf°C	Th°C	Tm°C	Opening Temp
ST-3800	75	50	105	70°C +3/-1
ST-3804	136	101	166	132°C +2/-2
ST-3808	158	123	263	154°C +0/-5

▲ Marking	Cat.	Qty 1+	Qty 10+	Qty 25+
Yellow	ST-3800	\$3.50	\$3.15	\$2.75
Grey	ST-3804	\$3.50	\$3.15	\$2.75
Black	ST-3808	\$3.50	\$3.15	\$2.75

Cat. No	Tf°C	Th°C	Tm°C	Opening Temp
ST-3810	185	150	263	192°C +1/-3
ST-3812	219	174	249	214°C +2/-2
ST-3814	233	188	263	229°C +1/-3

▲ Marking	Cat.	Qty 1+	Qty 10+	Qty 25+
Light Green	ST-3810	\$3.50	\$3.15	\$2.75
Dark Green	ST-3812	\$3.50	\$3.15	\$2.75
Dark Blue	ST-3814	\$3.50	\$3.15	\$2.75

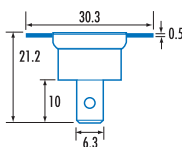
THERMOSTAT SWITCHES

AUTOMATIC RESETTING BI-METALLIC DISC, SNAP ACTING

This phenolic-housed unit attaches to any metal surface which needs to be heat monitored.

- Normally closed or normally open available

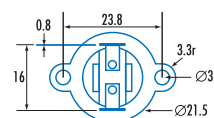
SPECIFICATIONS	ALL MODELS
Operating tolerance	+/- 5°C (32VDC), +/- 8°C (125VAC), +/- 10°C (250VAC)
Reset differential	10°C - 50°C
Contact endurance	32VDC - 100mA - 50,000 cycles
Cycles	125VAC - 10A - 100,000 cycles
Cycles	250VAC - 6A - 30,000 cycles
Interrupt capacity	125VAC x 60A - 5 cycles
Overshoot temperature	200°C/5 minutes
Dielectric strength	1500VAC 1 minute
Reset type	Auto Reset



NORMALLY CLOSED

When the surface meets or exceeds a certain temperature, the SPST bi-metallic element goes open circuit.

- The unit resets automatically when temperature falls below specified limit.
- Ideal for any electrical item that needs thermal protection.



NORMALLY OPEN

These thermostat switches have normally open contacts. They operate once the temperature reaches a specified limit and automatically reset to their original normally open state once the temperature drops below its rated temperature. These are suitable for power amplifier applications and other temperature sensitive devices where a cooling fan needs to be integrated to cool the device down. Mounting holes are provided, ideal for attachment to a heatsink or any metallic surface.

▲ Opening Temp (°C)	Reclosing Temp (approx) (°C)		Cat.	Qty 1+	Qty 10+	Qty 25+
60	40	Normally Closed	ST-3821	\$5.75	\$4.95	\$4.60
70	58	Normally Closed	ST-3823	\$5.75	\$4.95	\$4.60
90	75	Normally Closed	ST-3825	\$5.75	\$4.95	\$4.60
100	85	Normally Closed	ST-3826	\$5.75	\$4.95	\$4.60

▲ Thermostat (°C)		Cat.	Qty 1+	Qty 10+	Qty 25+
50	Normally Open	ST-3831	\$5.75	\$4.95	\$4.60
70	Normally Open	ST-3833	\$5.75	\$4.95	\$4.60
100	Normally Open	ST-3836	\$5.75	\$4.95	\$4.60

SPECIALTY PLASTIC ENCLOSURES - IP65

IP65 Sealed Polycarbonate Enclosures

- Made with Polycarbonate material - moulded in light grey.
- Operating temperature: -40 to +125°C
- The lid and base incorporate a tongue and groove sealing system with a neoprene gasket
- Lid fixing screws are M-4 stainless steel (non-magnetic) into threaded brass inserts
- Wall mounting holes and lid fixing screws are outside the sealing area thus preventing the ingress of moisture and dust
- Designed to IP65 of IEC 529 and NEMA 4 (dust and hose proof)
- Internal guide slots for mounting PCB assemblies vertically (not on HB-6230)



LIGHT GREY

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
82	80	55	HB-6230	\$12.95	\$11.35	\$10.35
115	65	40	HB-6212	\$13.95	\$12.35	\$10.95
115	90	55	HB-6216	\$14.95	\$13.35	\$11.70
171	121	55	HB-6218	\$19.95	\$17.95	\$15.95
171	121	80	HB-6224	\$23.95	\$21.35	\$18.95
222	146	55	HB-6220	\$29.95	\$26.95	\$23.95

LIGHT GREY WITH CLEAR LID

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
171	121	55	HB-6248	\$23.95	\$21.35	\$18.95



LIGHT GREY WITH MOUNTING FLANGE

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
64	58	35	HB-6211	\$9.95	\$8.75	\$7.75
115	65	40	HB-6213	\$12.95	\$11.35	\$10.35
115	90	55	HB-6217	\$16.95	\$14.95	\$13.35
171	121	55	HB-6219	\$21.95	\$19.70	\$17.35
171	121	80	HB-6221	\$25.95	\$23.35	\$20.70

LIGHT GREY WITH CLEAR LID WITH MOUNTING FLANGE

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
115	65	40	HB-6249	\$14.95	\$13.35	\$11.70
115	90	55	HB-6251	\$17.95	\$15.95	\$14.35
115	121	80	HB-6223	\$28.95	\$25.95	\$22.95



SPECIALTY PLASTIC ENCLOSURES (CONTINUED)

Remote Control Case

This case is ideal for a TV/VCR remote control. The case includes a battery compartment with sliding cover. It will accept either 2 x AA batteries or a 9V. The terminals for the AA batteries are included. The transmitting end of the box is supplied with 2 plastic panels, one the colour of the box, the other a red perspex for use with Infrared LEDs.

* Includes Battery Contact Kit & Translucent Panel



Keyfob Remote Control Case

Includes the case and hardware, which consists of pushbutton knobs, battery terminals, LED cover and keyring.



W (mm)	D (mm)	H (mm)	Cat.	Qty 1+
32	50	10	HB-5605	\$1.95

3 Pin Plug Pack Case

Make your own plug in power supplies with our vented case. Complete with earth pin!

* Plug pins to the new insulated standard



BLACK - HIGH IMPACT ABS UL94V0

W(mm)	D(mm)	H(mm)	Flame Retard	Cat.	Qty 1+	Qty 10+	Qty 20+
135	70	24	No	HB-5610	\$9.95	\$8.75	\$7.75

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
55	47	95	HB-5900	\$5.95	\$5.25	\$4.75

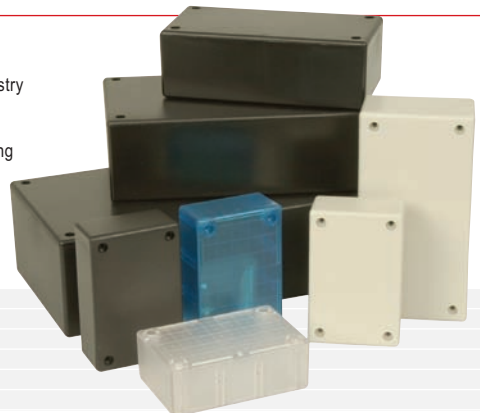
ABS ENCLOSURES

Jiffy Boxes

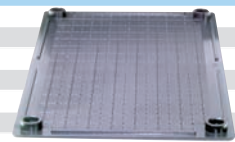
Manufactured from ABS plastic, these jiffy boxes not only look great, they have been designed to incorporate everything our customers wanted in a constructor's box. Sizes are compliant with industry standards externally and PCB fitting internally.

- Impervious, dimple-free finish provides good adhesion for screen printing
- Lids feature a 5mm grid of 'centre punch' type points on the underside for quick & accurate drilling
- Lids also feature a 10mm grid of scribed lines providing an easy and precise guide for cutting or filing cut-outs
- PCB guides in the sides of the box have snap-in locators. Eliminates the need for stand-off hardware when mounting boards horizontally
- Box also has a grid of 'centre punch' type points on the base of the inside
- Supplied with lid fixing screws and safety concealment plugs

	External (mm)	To Fit PCB (mm)
Size	Dimensions	Vertical
UB1	158 x 95 x 53	89 x 48
UB2	197 x 113 x 63	105 x 57
UB3	130 x 68 x 44	63 x 39
UB5	83 x 54 x 31	50 x 27



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
UB1	Black	HB-6011	\$4.45	\$3.95	\$3.45
UB2	Black	HB-6012	\$6.95	\$6.25	\$5.50
UB3	Black	HB-6013	\$3.95	\$3.45	\$3.15
UB3	Grey	HB-6023	\$3.95	\$3.45	\$3.15
UB5	Black	HB-6015	\$2.95	\$2.60	\$2.30
UB5	Grey	HB-6025	\$2.95	\$2.60	\$2.30
UB5	Clear	HB-6005	\$2.95	\$2.60	\$2.30



HB-6011

BLUE (TRANSLUCENT IMAC® LOOK)

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
UB5	Blue	HB-6004	\$3.45	\$3.05	\$2.75

Inside of lid features 10mm grid

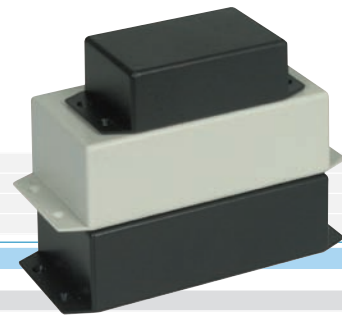
Flanged ABS Lids Version of Jiffy Boxes

These professional enclosures are identical to the UB3 & UB5 jiffy boxes, except they feature flanged lids for bulkhead/surface mounting. The exclusive moulded Jaycar drilling template on the inside of the lid is included, as are the screw hole plugs to hide the lid screws. Refer to the jiffy box information on the left for full detail on the drilling template. Ideal for automotive, security, audio/video plus a wide variety of other applications.

- Lid moulded, drill assist pilot holes on a 5 & 10mm pitch
- Four hole plugs to improve finish
- Moulded in ABS plastic
- Exclusive to Jaycar.

	External (mm)	To Fit PCB (mm)
Size	Dimensions	Vertical
UB3	130 x 68 x 44	63 x 39
UB5	83 x 54 x 31	50 x 27

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
UB3	Black	HB-6014	\$4.45	\$3.95	\$3.45
UB5	Black	HB-6016	\$2.95	\$2.60	\$2.30
UB3	Grey	HB-6024	\$4.45	\$3.95	\$3.45



ABS Enclosures with Snap-in Hinged Lid

Versatile ABS plastic enclosures with self-locking construction that provides easy opening and closing of the enclosure without use of additional tools. The rubber cable entry/exit also means you don't need to get the drill out in order to run cabling from the box.

- Four internal moulded standoffs allow you mount a PCB horizontally
- Available in light grey and black colours, and made from high strength ABS plastic
- Full specifications see website

External dimensions (excluding flange):

HB-6431 & HB-6433 - 91(L) x 79(W) x 45(H)mm

HB-6432 & HB-6434 - 91(L) x 122(W) x 69(H)mm

HB-6431

HB-6433

HB-6434

HB-6432

▲	Colour	Type	L(mm)	W(mm)	H(mm)	Cat.	Qty 1+	Qty 4+
Grey	1-Way Cable Entry	91	79	45	HB-6431	\$5.95	\$5.25	\$4.75
Black	1-Way Cable Entry	91	79	45	HB-6433	\$5.95	\$5.25	\$4.75
Grey	2-Way Cable Entry	91	122	69	HB-6432	\$7.95	\$6.95	\$6.25
Black	2-Way Cable Entry	91	122	69	HB-6434	\$7.95	\$6.95	\$6.25



ABS ENCLOSURES (CONTINUED)**IP54 High Quality Polystyrene Enclosures**

This range includes a small flat case that is ideal for remote control transmitters, up to a case that is ideal for bench test equipment, and the best thing is that they are not expensive.

All are supplied with removeable front and rear panels which are light grey in colour, with the rest of the case dark grey. They are moulded in ABS, conform to IP54 and IEC529 and NEMA4 with respect to moisture and dust proof sealing and flame retardant to UL94-V0. Guide slots are provided for vertical mounting of PCBs, and spacers are moulded in for horizontal mounting.

All but the smallest two have M3 screws and brass inserts to hold top and bottom together.

DARK GREY ABS - FLAME RETARDANT TO UL94

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
90	50	16	HB-6030	\$4.95	\$4.45	\$3.90
90	50	24	HB-6031	\$5.95	\$5.25	\$4.75
120	60	30	HB-6032	\$7.95	\$6.95	\$6.25
150	80	30	HB-6034	\$12.95	\$11.35	\$10.35
190	100	40	HB-6036	\$18.95	\$16.95	\$14.95

**Bulkhead ABS Mount Cases**

4 cases in the range. The two smaller sizes have moulded in square cable entries on each end, and holes for screws/bolts to mount the case.

- Colour is black.
- The two larger cases have a moulded bracket at each end with a screw hole for easy mounting.

HB-6075

The base snaps into place, and there is a round 10mm dia hole in one side for cable entry

HB-6080

The base mounts with 4 self tapping screws.

HB-6081

The base mounts to case with 4 self tapping screws included.

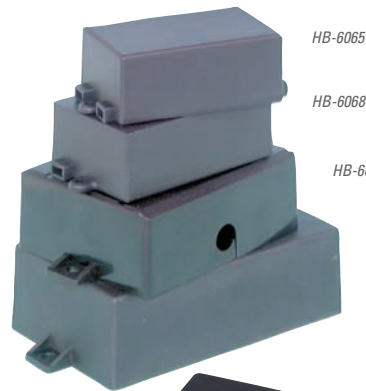
HB-6082

This case has mounting brackets at each end that are easily removable if you do not wish to mount the case.

It has a clear plastic front/top plate that allows you to view the contents of the box.

This plate is screwed on from the base/back and cannot easily be removed from the front.

- Colour: Black and Clear

**BLACK - HIGH IMPACT ABS**

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
65	38	27	HB-6065	\$2.65	\$2.30	\$2.07
72	44	28	HB-6068	\$2.95	\$2.60	\$2.30
88	69	33	HB-6075	\$3.75	\$3.30	\$2.95
112	67	36	HB-6080	\$5.75	\$4.95	\$4.60



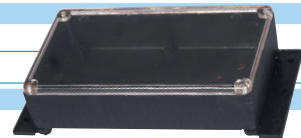
HB-6081

EXTRA DEEP BULKHEAD ABS MOUNT CASES

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
72	50	63	HB-6081	\$6.95	\$6.25	\$5.50

BULKHEAD MOUNT CASE WITH CLEAR FRONT / TOP

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
120	70	30	HB-6082	\$11.95	\$10.45	\$9.45



HB-6082

Snap Fit ABS Enclosures - Black

A range of black ABS enclosures with side flanges allowing wall, or even ceiling mount. Snap fit design locks together to enclose your circuit board or project inside.

- Material: ABS
- Colour: Black
- Wall mount holes: 2 x 4.5mm Dia.
- Internal holes: 4 x 2.6mm x 6mm



HB-6006

HB-6007

Cat.	Dimensions (Internal)	Dimensions (External)
HB-6006	45.44(W) x 45.84(D) x 18.0(H)mm	70.4(W) x 50.5(D) x 27.0(H)mm
HB-6007	65.44(W) x 45.84(D) x 33.0(H)mm	90.4(W) x 50.5(D) x 42.0(H)mm
HB-6008	75.44(W) x 76.04(D) x 33.5(H)mm	100.6(W) x 80.7(D) x 43.5(H)mm
HB-6009	100.44(W) x 66.04(D) x 41.1(H)mm	127.0(W) x 70.7(D) x 50.5(H)mm



▲ W(mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
70.4	50.5	27.0	HB-6006	\$3.95	\$3.55	\$3.15
90.4	50.5	42.0	HB-6007	\$4.95	\$4.45	\$4.00
100.6	80.7	43.5	HB-6008	\$5.95	\$5.25	\$4.75
127.0	70.7	50.5	HB-6009	\$6.25	\$5.60	\$5.00

Enclosure Potting Box

- Protect your electronic assemblies against shock, temperature, humidity and chemicals
- Moulded in high impact ABS plastic
- Black in colour
- Flammability rating: UL-94HB

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
39	39	27	HB-5202	\$1.50	\$1.35	\$1.20
45	30	25	HB-5200	\$1.00	\$0.90	\$0.80
70	50	20	HB-5204	\$2.95	\$2.60	\$2.30



ABS ENCLOSURES (CONTINUED)

IP65 Sealed ABS Enclosures

- Made with ABS Material
- Moulded in dark grey
- Operating temperature: -20 to +80C
- Bosses on internal base allow fixing of PCBs horizontally, or connection of terminals etc.
- The lid and base incorporate a tongue and groove sealing system with a neoprene gasket
- Lid fixing screws are M-4 stainless steel (non-magnetic) into threaded brass inserts
- Wall mounting holes and lid fixing screws are outside the sealing area thus preventing the ingress of moisture and dust
- Some sizes also available with external flange to allow mounting after the box has been sealed
- Designed to IP65 of IEC529 and NEMS 4 (dust and hose proof)
- Internal guide slots for mounting PCB assemblies vertically (Not on HB-6120 or HB-6134)

▲ Colour	W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Dark Grey	64	58	35	HB-6120	\$5.95	\$5.25	\$4.75
Dark Grey	64	58	35	Flange HB-6121	\$6.95	\$6.25	\$5.50
Dark Grey	115	65	40	HB-6122	\$8.95	\$7.95	\$6.95
Dark Grey	115	65	40	Flange HB-6123	\$9.95	\$8.75	\$7.75
Dark Grey	115	65	55	HB-6124	\$9.95	\$8.75	\$7.75
Dark Grey	115	65	55	Flange HB-6138	\$10.95	\$9.75	\$8.75
Dark Grey	115	90	55	HB-6126	\$12.95	\$11.35	\$10.35
Dark Grey	115	90	55	Flange HB-6127	\$14.95	\$13.35	\$11.70
Dark Grey	171	121	55	Flange HB-6125	\$19.95	\$17.70	\$15.70
Dark Grey	171	121	55	HB-6128	\$17.95	\$15.95	\$14.35
Dark Grey	171	121	80	HB-6129	\$21.95	\$19.70	\$17.35
Dark Grey	222	146	55	HB-6130	\$24.95	\$22.35	\$19.70
Dark Grey	222	146	75	HB-6132	\$28.95	\$25.95	\$22.95
Dark Grey	240	160	90	HB-6134	\$37.95	\$33.95	\$30.45



ABS INSTRUMENT CASES

Plastic Instrument Case

- Modern design case in matt finish surface.
- Ideal for desktop instruments.
- Top and base is in grey, with dark grey front and rear panels.
- Moulded in high impact ABS plastic UL-94-HB
- Includes 4 pcs screws and rubber feet



High Impact ABS Instrument Case

This top quality case is ideally suited for instrumentation, telecommunication, or just to make your projects look fabulous.

- Removeable ABS front and rear panels
- Top and bottom have a tongue and groove joint and are lightly textured which offers a non-scratch surface & keeps the high quality finish
- Guide slots provided for vertical mounting of PCBs
- Bosses are provided for horizontal mounting of PCBs
- Screws supplied to secure lid to base



LIGHT GREY - DARK GREY END PANELS

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
95	158	47	HB-5922	\$9.95	\$8.75	\$7.75

GREY ABS - UL94HB

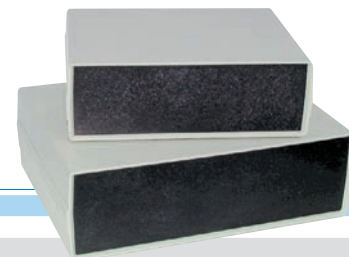
W (mm)	D (mm)	H (mm)	End Panels	Cat.	Qty 1+	Qty 4+	Qty 10+
140	110	35	Black	HB-5970	\$6.25	\$5.60	\$5.00

Pro Quality ABS Instrument Cases

Our superb instrument cases will give your projects the professional appearance they deserve.

- Internal mounting posts enable a wide combination of PCB's, transformers, etc., to be accommodated
- PCB guide rails provided internally allow vertical PCB positioning to several locations
- Removable front and rear panels, attractive textured finish one side and plain the other. (Enables direct engraving, silk screen printing etc., to plain side)
- Top and bottom split apart for ease of construction or service. Feet included
- Great for test instruments and other high grade projects

W (mm)	D (mm)	H (mm)		Cat.	Qty 1+	Qty 4+	Qty 10+
200	160	70	Non-vented	HB-5912	\$14.95	\$13.35	\$11.70
253	190	82	Vented	HB-5910	\$24.95	\$22.45	\$19.95



INGRESS PROTECTION (IP) RATING SYSTEM

TECH TALK

THE IP EQUIPMENT/ENCLOSURE RATING SYSTEM

The IP rating system provides a means of classifying a piece of electric or electronic equipment (or sometimes the equipment's enclosure) in terms of its protection against various forms of environmental influence. The protection is from human interference, dust, water, etc. The IP rating is NOT an electrical standard. The rating is a two digit number, and the larger the value of each digit, the greater the protection from that influence.

Example:

IP67

6 = Dustproof (Totally protected against dust ingress)

7 = Waterproof (Protected against immersion between 15cm and 1m)

VALUE	1ST DIGIT	2ND DIGIT
0	No protection	No protection
1	Protected against solid objects over 50mm, e.g. hands, large tools	Protected against vertically falling drops of water
2	Protected against solid objects over 12.5mm, e.g. fingers, large tools	Protected against direct sprays of water up to 15° from vertical
3	Protected against solid objects over 2.5mm, e.g. tools, wires...	Protected against direct sprays of water up to 60° from vertical
4	Protected against solid objects over 1mm, e.g. tools, small wires...	Protected against water splashed from any direction: limited ingress permitted.
5	Limited protection against dust ingress (no harmful deposit)	Protected against low pressure water jets from any direction: limited ingress permitted
6	Totally protected against dust ingress	Protected against strong water jets (e.g. ship decks): limited ingress permitted
7	-	Protected against temporary immersion up to 1m for over 30 mins
8	-	Protected against long periods of immersion under pressure. Generally to 3m
9K	-	Protected against high pressure associated with steam cleaning

IP67

METAL ENCLOSURES - DIECAST

Economy Diecast Aluminum Boxes

- Excellent screening properties for EMI and RFI
- Ideal for projects subject to weather
- Made from 380 Die-cast aluminium alloy (BS1490 LM24)
- Ideal for instruments, meter cases, filter networks etc
- Robust, light weight and easy to machine
- Ideal for projects involving heat as the case itself makes an excellent heatsink
- Close fitting flanged lids

See our range
of knobs on
page 280

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
51	51	32	HB-5060	\$7.95	\$6.95	\$6.25
111	60	30	HB-5062	\$9.95	\$8.75	\$7.75
111	60	54	HB-5063	\$12.95	\$11.35	\$10.35
119	94	34	HB-5067	\$14.95	\$13.35	\$11.70
119	94	57	HB-5064	\$18.95	\$16.95	\$14.95



IP65 Sealed Diecast Aluminium Boxes

This range of boxes compare in quality to those English and Canadian ones that are VERY expensive. These are ideal for housing electronic assemblies, pneumatic, hydraulic & electrical devices for commercial & industrial environments. Provides effective shielding of EMI and RFI.

- Aluminium diecast - resistant to atmospheric and marine corrosion
- Designed to IP65 of IEC529 and NEMA4 (dust and hoseproof)
- Wall mounting holes and lid fixing screws are outside the sealing area
- The lid incorporates a recessed neoprene gasket
- Bosses on internal base for fixing PCBs horizontally or connection of earth grounding, etc
- Internal guide slots for mounting PCB assemblies vertically
- Screw holes for lid mounting are roll threaded
- Captive, recessed lid screws
- Heat rating up to 400°C

Manufacturers and bulk users -
contact Jaycar for bulk pricing.

SPECIFICATIONS	ALL MODELS
Wall thickness	3.4 +/-0.1mm
Box and lid	aluminium alloy ADC-10 to Japan Industrial Standard (JIS) in natural state
Gasket	neoprene, resistant to oil and petrol
Lid screws	M4 stainless steel (non magnetic)
Ground screw and washer	copper plated.

W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
64	58	35	HB-5030	\$9.95	\$8.75	\$7.75
115	65	30	HB-5036	\$14.95	\$13.35	\$11.70
115	65	55	HB-5040	\$18.95	\$16.95	\$14.95
115	90	55	HB-5042	\$21.95	\$19.70	\$17.35
171	121	55	HB-5046	\$34.95	\$31.45	\$27.90
222	146	55	HB-5050	\$36.95	\$33.45	\$29.45



IP65 Sealed Diecast Aluminium Boxes - Flanged Mount

Sealed aluminium enclosures for external use are provided with flanges and holes for wall mounting. Lid fixing bolts are located outside the sealing area to ensure better sealing. Made from aluminium alloy ADC-10 (JIS) and provides protection against dust and moisture (IP65). Features racks and guides for mounting a PCB horizontally or vertically.

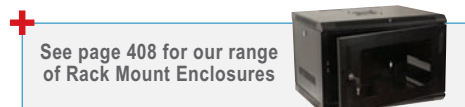
W (mm)	D(mm)	H(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
90	36	30	HB-5029	\$10.95	\$9.75	\$8.75
64	58	35	HB-5031	\$11.95	\$10.70	\$9.50
115	90	55	HB-5044	\$23.95	\$21.35	\$18.95
171	121	55	HB-5041	\$36.95	\$33.45	\$29.45



METAL INSTRUMENT CASES

Metal Enclosures

Aluminium cases finished in grey with black finish steel cover. Ventilated and supplied with rubber feet.



See page 408 for our range
of Rack Mount Enclosures

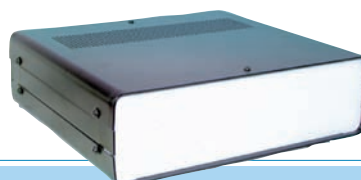


W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
102	150	61	HB-5442	\$14.95	\$13.45	\$11.95
160	184	70	HB-5446	\$19.95	\$17.70	\$15.70

Professional Bench Enclosure

This cabinet has pre-punched ventilation holes, metal thread fastening screws, aluminium pre-painted front and rear panels, up to the minute styling and facilities to mount internal hardware without recourse to drilling lids. Apart from this, the enclosure features cabinet heights that comply with standard IEC297 rack heights. Even though it is not a rack cabinet many components (especially transformers) are made to comply to these height dimensions.

- Grey in colour.



W (mm)	D (mm)	H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
304	279	88	HB-5556	\$59.95	\$53.95	\$47.95



INDEX - ELECTRONIC COMPONENTS

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PASSIVE COMPONENTS

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LINEAR ICs

Through Hole

• Major brands only



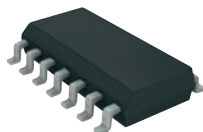
Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
AN7511	8	Balanced transformerless audio amp 1W	ZL-3388	\$4.95	\$4.45	\$3.45
BA1404	18	FM stereo transmitter	ZL-3995	\$6.95	\$6.25	\$4.85
CA3140	8	4.5MHz BiMOS op-amp	ZL-3835	\$3.75	\$3.30	\$2.60
CA3130	8	15MHz BiMOS op-amp	ZL-3860	\$4.95	\$4.45	\$3.45
INA126PA	8	Micropower Instrument Amp	ZL-3976	\$6.95	\$6.25	\$4.85
LM301	8	High performance op-amp	ZL-3301	\$2.25	\$2.00	\$1.55
LM308	8	Precision op-amp	ZL-3308	\$12.95	\$11.35	\$8.95
LM311	8	Voltage comparator	ZL-3311	\$1.95	\$1.75	\$1.35
LM319	14	High speed dual comparator	ZL-3319	\$3.75	\$3.30	\$2.60
LM324	14	Quad low power op-amp	ZL-3324	\$2.35	\$2.09	\$1.60
LM334Z	3	Adjustable current source	ZL-3334	\$2.75	\$2.45	\$1.90
LM335Z	3	Temperature sensor TO92	ZL-3336	\$4.50	\$3.95	\$3.15
LM339	14	Quad low power comparator	ZL-3339	\$1.95	\$1.75	\$1.35
LM348	14	Quad 741 op-amp	ZL-3348	\$2.75	\$2.45	\$1.90
LM358	8	Dual low power op-amp	ZL-3358	\$2.25	\$2.00	\$1.55
LM380	14	Audio power amp 2.5W	ZL-3380	\$3.45	\$3.05	\$2.35
LM386N-1	8	Low voltage audio amp 325mW	ZL-3386	\$2.75	\$2.45	\$1.90
LM393	8	Low power dual comparator	ZL-3393	\$2.25	\$2.00	\$1.55
LM567	8	Low power tone decoder	ZL-3567	\$3.75	\$3.30	\$2.60
LM741	8	General purpose op-amp	ZL-3741	\$1.95	\$1.75	\$1.35
LM747	14	Dual op-amp	ZL-3747	\$5.50	\$4.90	\$3.75

Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
LM833N	8	Dual low noise opamp	ZL-3833	\$3.20	\$2.83	\$2.20
LM1458	8	Dual op-amp	ZL-3753	\$1.75	\$1.55	\$1.20
LM1875	5	25W audio power amplifier	ZL-3755	\$7.95	\$7.15	\$5.55
LM2917	14	Frequency to voltage convertor	ZL-3930	\$6.50	\$5.75	\$4.45
LM3875T	11	56W audio power amplifier	ZL-3752	\$18.95	\$16.95	\$12.95
LM3900	14	Quad op-amp	ZL-3900	\$2.75	\$2.45	\$1.90
LM3914	18	LED bar/dot driver (linear)	ZL-3914	\$8.25	\$7.25	\$5.75
LM3915	18	LED bar/dot driver (logarithmic)	ZL-3915	\$8.25	\$7.25	\$5.75
LM4558	8	Dual high performance op-amp	ZL-3958	\$1.75	\$1.55	\$1.20
LM7555	8	CMOS timer	ZL-3455	\$2.15	\$1.85	\$1.25
LMC6482AIN	8	Dual CMOS op-amp	ZL-3482	\$5.95	\$5.35	\$4.15
LMC6484AIN	14	Quad CMOS op-amp	ZL-3484	\$9.95	\$8.95	\$6.95
NE555	8	555 timer	ZL-3555	\$2.25	\$2.00	\$1.55
NE556	14	Dual 555 timer	ZL-3556	\$1.95	\$1.75	\$1.35
NE5534N	8	Low noise op-amp	ZL-3970	\$3.95	\$3.55	\$2.75
NE5534AN	8	Ultra low noise op-amp	ZL-3971	\$4.85	\$4.30	\$3.30
OP07C/D	8	Precision op-amp	ZL-3974	\$4.75	\$4.25	\$3.30
OPA2134PA	8	Dual high perf audio op-amp	ZL-3972	\$8.95	\$7.95	\$6.25
TL071/LF351	8	Single low noise JFET op-amp	ZL-3071	\$2.15	\$1.90	\$1.50
TL072/LF353	8	Dual low noise JFET op-amp	ZL-3072	\$2.15	\$1.90	\$1.50
TL074/LF347	14	Quad low noise JFET op-amp	ZL-3074	\$2.75	\$2.45	\$1.90
TL084	14	Quad JFET op-amp	ZL-3084	\$2.50	\$2.20	\$1.75

SMD Linear ICs

SMD op-amp ICs for audio applications.

• Packs of 10



Type	Case	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
LM324M	SOIC14	Quad low power op-amp	ZL-3342	\$29.95	\$26.90	\$20.70
µA741CD	SOIC8	General purpose op-amp	ZL-3070	\$9.95		

SMD 555 Timer ICs

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- Output can source or sink 200mA
- Output and supply TTL compatible
- Normally on and normally off output
- Sold as a pack of 10

Applications:

- Timing
- Pulse generation
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator



Type	Case	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
NE555D	SOIC8	555 timer	ZL-3550	\$13.95	\$12.35	\$9.75

THE 555 TIMER IC

TECH TALK

It would be a mean-spirited person who did not concede that the 555 Timer IC was - and still is - the most popular chip ever made.

Invented in 1971 by a U.S. company called Signetics it has a number of really useful features. Firstly it's a timer. It's a pulse generator and finally an oscillator, all in an 8 pin package.

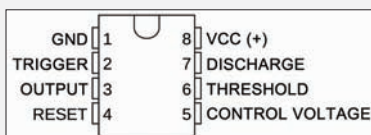
The original version was fabricated with bipolar transistors, and although still popular a CMOS version is now dominant. The bipolar version, like 74 series TTL drew a lot of current and also created an annoying amount of switching noise on power supply rails.

Such is the popularity of this circuit, it is available in standard bipolar, CMOS in single, double and quad timer packages.

Jaycar still carry the product in original form, (555) dual 556, CMOS 7555 and in a single surface mount version!

It was said that the name 555 came from the fact that the circuit contained 3 x 5k resistors used within. The inventor of the original device, Hans Camenzind disputes this, saying that the number of the part was arbitrary.

Whatever, the fact is that around a billion of them are made every year in one form or another.



SHOW US YOUR BUILD COMPETITION

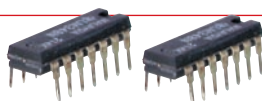
Andrew, who shops at our Jaycar Ferntree Gully store built:

My telescope takes high res images of the Moon. "www.visit-the-moon.com" It is powered by Jaycar! A 555 timer-based 12V supply delivers 3-15W to tiny heaters that stop dew formation on the optics. A 16V supply with a slower relay-based duty cycle drives Peltier coolers to improve camera performance.



74LS SERIES

- Low power Schottky logic
- Major brands only



Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
74LS00	14	Quad 2 input NAND gate	ZS-5000	\$1.65	\$1.45	\$1.15
74LS01	14	Quad 2 input NAND gate (OC)	ZS-5001	\$1.65	\$1.45	\$1.15
74LS02	14	Quad 2 input NOR gate	ZS-5002	\$1.65	\$1.45	\$1.15
74LS04	14	Hex inverter	ZS-5004	\$1.65	\$1.45	\$1.15
74LS05	14	Hex inverter (OC)	ZS-5005	\$1.65	\$1.45	\$1.15
74LS08	14	Quad 2 input AND gate	ZS-5008	\$1.65	\$1.45	\$1.15
74LS10	14	Triple 3 input NAND gate	ZS-5010	\$1.75	\$1.55	\$1.20
74LS11	14	Triple 3 input AND gate	ZS-5011	\$1.75	\$1.55	\$1.20
74LS14	14	Hex schmitt trigger inverter	ZS-5014	\$1.55	\$1.35	\$1.05
74LS20	14	Dual 4 input NAND gate	ZS-5020	\$1.65	\$1.45	\$1.15
74LS27	14	Triple 3 input NOR gate	ZS-5027	\$1.75	\$1.55	\$1.20
74LS30	14	Single 8 input NAND gate	ZS-5030	\$1.25	\$1.10	\$0.85
74LS32	14	Quad 2 input OR gate	ZS-5032	\$1.65	\$1.45	\$1.15
74LS42	16	BCD to decimal decoder	ZS-5042	\$4.95	\$4.45	\$3.45
74LS47	16	BCD to 7 seg decoder/driver OC	ZS-5047	\$1.95	\$1.75	\$1.35
74LS74	14	Dual D flip-flop, preset, clear	ZS-5074	\$1.65	\$1.45	\$1.15
74LS75	16	4 bit bi-stable latch	ZS-5075	\$1.75	\$1.55	\$1.20
74LS85	16	4 bit magnitude comparator	ZS-5085	\$2.95	\$2.65	\$2.05
74LS86	14	Quad 2 input exclusive OR gate	ZS-5086	\$1.65	\$1.45	\$1.15
74LS90	14	Decade counter	ZS-5090	\$2.25	\$2.00	\$1.55
74LS93	14	4 bit binary counter	ZS-5093	\$4.95	\$4.45	\$3.75
74LS109	16	Dual JK flip-flop + preset + clear	ZS-5109	\$4.95	\$4.45	\$3.45

Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
74LS123	16	Dual retrigger monostable with clear	ZS-5123	\$1.95	\$1.75	\$1.35
74LS125	14	Quad tri-state buffer	ZS-5125	\$1.75	\$1.55	\$1.40
74LS138	16	3 to 8 line decoder/demux	ZS-5138	\$1.95	\$1.75	\$1.35
74LS139	16	Dual 2 to 4 line decoder/demux	ZS-5139	\$1.55	\$1.35	\$1.05
74LS151	16	Single 8 input multiplexer	ZS-5151	\$1.95	\$1.75	\$1.35
74LS153	16	Dual 4 input multiplexer	ZS-5153	\$2.25	\$2.00	\$1.55
74LS155	16	Dual 2 to 4 line decoder/demux	ZS-5155	\$2.50	\$2.20	\$1.75
74LS157	16	Quad 2 to 1 line multiplexer	ZS-5157	\$1.65	\$1.45	\$1.15
74LS161	16	4 bit binary counter (async. reset)	ZS-5161	\$2.25	\$2.00	\$1.55
74LS164	14	8 bit shift register (ser. in/par. out)	ZS-5164	\$1.65	\$1.45	\$1.15
74LS174	16	Hex D flip-flop + clear	ZS-5174	\$2.25	\$2.00	\$1.55
74LS175	16	Quad D flip-flop with clear	ZS-5175	\$1.65	\$1.45	\$1.15
74LS192	16	Up/down dec counter/dual clock	ZS-5192	\$2.50	\$2.20	\$1.75
74LS193	16	Up/down bin counter/dual clock	ZS-5193	\$1.95	\$1.75	\$1.35
74LS221	16	Dual monostable multivibrator	ZS-5221	\$1.80	\$1.55	\$1.25
74LS240	20	Octal tri-state buffer (inverting)	ZS-5240	\$2.25	\$2.00	\$1.55
74LS241	20	Octal tri-state buffer (non-inverting)	ZS-5241	\$2.25	\$2.00	\$1.55
74LS244	20	Octal tri-state line driver/receiver	ZS-5244	\$2.25	\$2.00	\$1.55
74LS245	20	Octal tri-state bus transceiver	ZS-5245	\$2.25	\$2.00	\$1.55
74LS273	20	Octal D flip-flop + clear	ZS-5273	\$2.50	\$2.20	\$1.75
74LS283	16	4 bit binary full adder + carry	ZS-5283	\$4.50	\$4.05	\$3.15
74LS373	20	Octal tri-state transparent latch	ZS-5273	\$1.95	\$1.75	\$1.35
74LS374	20	Octal tri-state D flip-flop	ZS-5274	\$1.95	\$1.75	\$1.35

74HC SERIES

- High speed CMOS logic
- Major brands only

Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
74HC00	14	Quad 2 input NAND gate	ZC-4800	\$1.25	\$1.10	\$0.75
74HC02	14	Quad 2 input NOR gate	ZC-4802	\$1.45	\$1.25	\$0.85
74HC04	14	Hex inverter	ZC-4804	\$1.45	\$1.25	\$0.85
74HC08	14	Quad 2 input AND gate	ZC-4808	\$1.45	\$1.25	\$0.85
74HC10	14	Triple 3 input NAND gate	ZC-4810	\$1.45	\$1.25	\$0.85
74HC14	14	Hex schmitt trigger inverter	ZC-4821	\$1.45	\$1.25	\$0.85
74HC27	14	Triple 3 input NOR gate	ZC-4827	\$1.45	\$1.25	\$0.85
74HC30	14	8 input NAND gate	ZC-4811	\$2.25	\$1.95	\$1.35
74HC32	14	Quad 2 input OR gate	ZC-4823	\$1.45	\$1.25	\$0.85
74HC42	16	BCD to decimal decoder	ZC-4826	\$2.75	\$2.35	\$1.65
74HC51	14	Dual 2 wide/2 input, 2 wide/3 input AND-OR-INVERT gate	ZC-4828	\$2.15	\$1.85	\$1.25
74HC73	14	Dual JK flip-flop + clear	ZC-4829	\$2.15	\$1.85	\$1.25
74HC74	14	Dual D flip-flop + preset + clear	ZC-4830	\$1.45	\$1.25	\$0.85
74HC76	16	Dual JK flip-flop + preset + clear	ZC-4832	\$3.20	\$2.80	\$1.90
74HC85	16	4 bit magnitude comparator	ZC-4834	\$2.15	\$1.85	\$1.25
74HC86	14	Quad 2 input exclusive OR gates	ZC-4835	\$1.50	\$1.30	\$0.90
74HC107	14	Dual JK flip-flop + clear	ZC-4837	\$2.95	\$2.55	\$1.75
74HC123	16	Dual retrigger monostable multivibrator + clear	ZC-4840	\$2.15	\$1.85	\$1.25
74HC125	14	Quad tri-state buffer (non-inverting)	ZC-4842	\$1.95	\$1.65	\$1.15
74HC132	14	Quad 2 input NAND gate + schmitt trig	ZC-4844	\$1.95	\$1.65	\$1.15

Type	Pins	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
74HC138	16	3 to 8 line decoder/demux	ZC-4846	\$2.15	\$1.85	\$1.25
74HC139	16	Dual 2 to 4 line decoder/demux	ZC-4848	\$2.15	\$1.85	\$1.25
74HC151	16	8 to 1 line multiplexer	ZC-4849	\$2.15	\$1.85	\$1.25
74HC154	24	4 to 16 line decoder/demux	ZC-4850	\$3.95	\$3.45	\$2.35
74HC157	16	Quad 2 line to 1 line multiplexer	ZC-4853	\$1.75	\$1.50	\$1.05
74HC160	16	Synch 4 bit BCD counter + preset	ZC-4855	\$3.95	\$3.45	\$2.35
74HC161	16	Synch 4 bit binary counter + preset	ZC-4856	\$2.65	\$2.30	\$1.55
74HC164	14	8 bit ser-in/par-out shift reg	ZC-4857	\$1.75	\$1.50	\$1.05
74HC165	16	8 bit par-in/ser-out shift reg	ZC-4858	\$1.75	\$1.50	\$1.05
74HC174	16	Hex D flip-flop + clear	ZC-4862	\$1.75	\$1.50	\$1.05
74HC193	16	Synch 4 bit binary up/down counter	ZC-4864	\$1.95	\$1.65	\$1.15
74HC221	16	Dual monostable multivibrator	ZC-4865	\$3.25	\$2.80	\$1.90
74HC240	20	Octal tri-state buffer (inverting)	ZC-4867	\$2.85	\$2.45	\$1.70
74HC244	20	Octal tri-state buffer (non-inverting)	ZC-4869	\$1.95	\$1.65	\$1.15
74HC245	20	Octal tri-state transceiver	ZC-4870	\$1.95	\$1.65	\$1.15
74HC367	16	Hex tri-state buffer	ZC-4872	\$2.15	\$1.85	\$1.25
74HC373	20	Octal tri-state transparent latch	ZC-4874	\$1.95	\$1.65	\$1.15
74HC374	20	Octal tri-state D flip-flop	ZC-4875	\$2.15	\$1.85	\$1.25
74HC393	14	Dual 4 bit binary counter	ZC-4880	\$2.50	\$2.20	\$1.75
74HC573	20	Octal tri-state transparent D latch	ZC-4890	\$2.85	\$2.45	\$1.70
74HC595	16	8 bit tri-state ser-in/ser+ par-out shift reg	ZC-4895	\$3.35	\$2.90	\$1.95
74HC4066	14	Quad bilateral analog switch	ZC-4892	\$1.15	\$0.95	\$0.65

TTL SERIES

- Standard TTL logic
- Major brands only



Type	Pin	Description	Cat.	Qty 1+	Qty 10+	Qty 25+
7404	14	Hex inverter	ZS-5804	\$3.95	\$3.45	\$2.35
7405	14	Hex inverter with OC outputs	ZL-3405	\$3.95	\$3.45	\$2.35
7406	14	Hex inverter with 30V OC outputs	ZS-5806	\$2.95	\$2.55	\$1.75
7407	14	Hex buffer with 30V OC outputs	ZS-5807	\$1.65	\$1.40	\$0.95

NON-STATIC SHEETING

Conductive Foam

Non-static sheeting for storing CMOS, ICs, LSIs, etc.

- Will store up to 150 ICs on one sheet
- Reusable, Can be cut with scissors or hobby knife for smaller pieces
- Size 225x150mm.



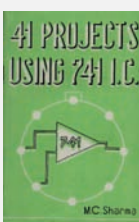
NEED PERKS
2x POINTS

	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	ZV-9998	\$9.95	\$8.75	\$6.75

RELATED PRODUCTS

41 Projects Using 741 IC

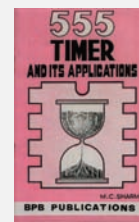
By M C Sharma. The 741 OP amp IC is very inexpensive yet is comparable to the best in respect of versatility and performance. We can't list every one of the 41 kits but here are a few examples: inverting and non-inverting AC and DC amps, crystal, magnetic, guitar, telephone and mic preamps, 3W and 12W amps, intercom, AC and DC motor control, schmitt trigger, square wave generator, flasher, timer light op relay, DC voltmeter, AC millivoltmeter, RPM counter, A to D converter, etc.



▲	Cat.	Qty 1+
	Soft cover, 37 pages 140 x 210mm	BM-2430 \$7.50

555 Timer & Its Applications

The 555 Timer IC is probably the most used IC in the world. It gives accurate timing range of micro seconds to hours. This book describes the functions and operation of the 555, then explains 21 projects to build using the IC. Some of these include photo timer, touch plate controller, car wiper control, car lights turn off, flashers, generators, delays auto power on and off, Ni-Cd charger, frequency divider, light operated relay, etc. An ideal book for the electronic hobbyist and experimenter.

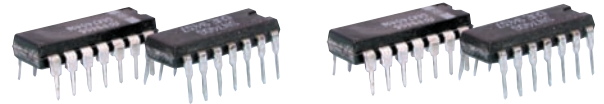


▲	Cat.	Qty 1+
	Soft cover, 43 pages 138 x 208mm	BM-2466 \$7.00

CMOS SERIES

- Standard CMOS logic
- Major brands only

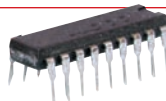
Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
4001	14	Quad 2 input NOR gate	ZC-4001	\$1.15	\$0.95	\$0.65
4007	14	Dual comp pair plus inverter	ZC-4007	\$1.35	\$1.15	\$0.80
4009	16	Hex buffer (inverting)	ZC-4009	\$1.75	\$1.50	\$1.05
4011	14	Quad 2 input NAND gate	ZC-4011	\$1.15	\$0.95	\$0.65
4012	14	Dual 4 input NAND Gate	ZC-4012	\$1.95	\$1.70	\$1.15
4013	14	Dual D flip-flop	ZC-4013	\$1.15	\$0.95	\$0.65
4015	16	Dual 4 bit static shift register	ZC-4015	\$1.75	\$1.50	\$1.05
4016	14	Quad bi-lateral switch	ZC-4016	\$1.15	\$0.95	\$0.65
4017	16	Decade counter/divider	ZC-4017	\$1.15	\$0.95	\$0.65
4018	16	Presetable divide by N counter	ZC-4018	\$2.75	\$2.35	\$1.65
4020	16	14-stage ripple carry binary counter	ZC-4020	\$1.95	\$1.65	\$1.15
4021	16	8-stage static shift register	ZC-4021	\$1.95	\$1.65	\$1.15
4022	16	Divide-by-8 counter/divider	ZC-4022	\$1.95	\$1.65	\$1.15
4023	14	Triple 3 input NAND gate	ZC-4023	\$1.25	\$1.05	\$0.75
4024	14	7-stage ripple carry binary counter	ZC-4024	\$1.25	\$1.05	\$0.75
4025	14	Triple 3-input NOR gate	ZC-4025	\$1.25	\$1.05	\$0.75
4026	16	Decade counter with 7 segment output	ZC-4026	\$2.45	\$2.10	\$1.45
4027	16	Dual JK flip-flop	ZC-4027	\$1.15	\$0.95	\$0.65
4028	16	BCD-to-Decimal Decoder	ZC-4028	\$1.15	\$0.95	\$0.65
4029	16	Presetable bin/decade up/down cnt	ZC-4029	\$1.75	\$1.50	\$1.05
4030	14	Quad 2 input exclusive OR gate	ZC-4030	\$1.75	\$1.50	\$1.05
4040	16	12-stage ripple carry binary counter	ZC-4040	\$1.75	\$1.50	\$1.05
4046	16	Micropower phase locked loop (PLL)	ZC-4046	\$1.95	\$1.65	\$1.15
4047	14	Monostable/Astable multivibrator	ZC-4047	\$2.15	\$1.85	\$1.25
4049	16	Hex buffer (inverting)	ZC-4049	\$1.15	\$0.95	\$0.65
4050	16	Hex buffer (non-inverting)	ZC-4050	\$1.25	\$1.10	\$0.75
4051	16	Single 8 channel analog mux/demux	ZC-4051	\$1.75	\$1.50	\$1.05



Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
4052	16	Dual 4 channel analog mux/demux	ZC-4052	\$1.15	\$0.95	\$0.65
4053	16	Triple 2 channel analog mux/demux	ZC-4053	\$1.75	\$1.50	\$1.05
4056	16	BCD to 7seg LCD decoder/driver	ZC-4056	\$2.75	\$2.35	\$1.65
4060	16	14-stage ripple carry binary counter	ZC-4060	\$1.75	\$1.50	\$1.05
4066	14	Quad bi-lateral switch	ZC-4066	\$1.15	\$0.95	\$0.65
4069	14	Hex inverter	ZC-4069	\$1.15	\$0.95	\$0.65
4070	14	Quad 2 input exclusive OR gate	ZC-4070	\$1.15	\$0.95	\$0.65
4071	14	Quad 2 input OR gate	ZC-4071	\$1.15	\$0.95	\$0.65
4073	14	Triple 3 input AND gate	ZC-4073	\$1.15	\$0.95	\$0.65
4075	14	Triple 3 input OR gate	ZC-4075	\$1.75	\$1.50	\$1.05
4076	16	4-bit tri-state D-type register	ZC-4076	\$1.75	\$1.50	\$1.05
4077	14	Quad 2 input exclusive NOR gate	ZC-4077	\$1.75	\$1.50	\$1.05
4081	14	Quad 2 input AND gate	ZC-4081	\$1.25	\$1.05	\$0.75
4093	14	Quad 2 input NAND schmitt trigger	ZC-4093	\$1.65	\$1.40	\$0.95
4094	16	8-bit tri-state shift register/latch	ZC-4094	\$1.65	\$1.40	\$0.95
40106	14	Hex schmitt trigger (inverting)	ZC-40106	\$1.75	\$1.50	\$1.05
4502	16	Strobed hex tri-state inverter	ZC-4502	\$2.15	\$1.85	\$1.25
4510	16	BCD up/down counter + preset	ZC-4510	\$1.95	\$1.65	\$1.15
4511	16	BCD to 7seg decoder/driver	ZC-4511	\$1.95	\$1.65	\$1.15
4514	24	4-bit latched 4 to 16 line decoder	ZC-4514	\$4.95	\$4.30	\$2.90
4516	16	Binary up/down counter + preset	ZC-4516	\$2.65	\$2.30	\$1.55
4518	16	Dual BCD up counter	ZC-4518	\$2.15	\$1.85	\$1.25
4520	16	Dual binary up counter	ZC-4520	\$1.95	\$1.65	\$1.15
4528	16	Dual monostable multivibrator	ZC-4528	\$1.50	\$1.25	\$0.90
4538	16	Dual precision monostable multivibrator	ZC-4538	\$2.65	\$2.30	\$1.55
4543	16	BCD to 7seg LCD latch/decoder/driver	ZC-4543	\$1.75	\$1.50	\$1.05
4553	16	3 digit BCD counter	ZC-4553	\$7.85	\$6.90	\$4.70

MICROCONTROLLER - ATMEL

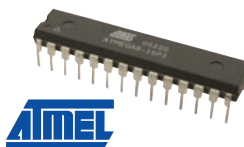
ATMEL Microcontrollers



Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
AT89C2051-24PC	20	8 bit micro + 2kB flash memory	ZZ-8700	\$3.95	\$3.45	\$2.75
AT90S2313-10PC	20	8 bit micro + 2kB flash memory	ZZ-8710	\$9.95	\$8.95	\$6.95
AT90S1200-12PC	20	8 bit micro + 1kB flash memory	ZZ-8750	\$10.95	\$9.85	\$7.65
ATmega8535-16PU	40	8 bit micro + 8kB flash memory	ZZ-8742	\$9.95	\$8.95	\$6.95
ATmega16-8PC	40	8 bit micro + 16kB flash memory	ZZ-8755	\$12.95	\$11.35	\$8.95
ATmega32-8PC/-16PU	40	8 bit micro + 32kB flash memory	ZZ-8760	\$19.95	\$17.95	\$13.95
ATmega8515-8PC	40	8 bit micro + 8kB flash memory	ZZ-8765	\$9.95	\$8.95	\$6.95


ATmega AVR RISC Microcontrollers - 16MHZ

Atmel's AVR microcontrollers utilise their famous RISC core operating at market leading speeds to make some of the best microcontroller products available. Architecture engineered for working with compiled C language programs, there is no longer a need for assembly language or a need for inefficient and unwieldy BASIC, so you can develop your project quicker without having to learn a new language.




Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
ATmega8-16PI	28	8 bit micro + 8kB flash memory	ZZ-8753	\$8.95	\$7.95	\$6.25
ATmega128-16AI	TQFP64	8 bit micro + 128kB flash memory	ZZ-8770	\$21.95	\$19.75	\$15.35
ATmega162-16PI	40	8 bit micro + 16kB flash memory	ZZ-8772	\$19.95	\$17.95	\$13.95

BASIC LOGIC FUNCTIONS




AND

A	B	Q
0	0	0
0	1	0
1	0	0
1	1	1




NAND

A	B	Q
0	0	1
0	1	1
1	0	1
1	1	0




OR

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	1




NOR

A	B	Q
0	0	1
0	1	0
1	0	0
1	1	0



XOR

A	B	Q
0	0	0
0	1	1
1	0	1
1	1	0



XNOR

A	B	Q
0	0	1
0	1	0
1	0	0
1	1	1

311 Circuits

311 Circuits - is the twelfth book in Elektor's celebrated '300' series. Containing circuits, design ideas, tips and tricks for all areas of electronics. Including: Audio, video, computers, microcontrollers, radio, power supplies, batteries, testing, measurement and software. Not to mention the "miscellaneous" section, a veritable goldmine of inspiration. Compiled from the 2009, 2010 and 2011 Summer Circuits double editions of Elektor magazine, it is mostly based on readers' contributions, supplemented by circuits engineered and developed in the Elektor Labs. If you only own one electronics book, this should be it.



▲	Cat.	Qty 1+
Soft cover, 420 pages, 234 x 170mm	BM-2471	\$64.95

309 Circuits Book

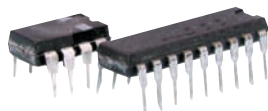
Companion to the popular 308 circuits with many useful designs in audio, video, car, computer, hobby, home, test, power supplies, chargers and more. The book is divided into categories to help find circuits easier. Each circuit has a diagram and a photo of the finished project.



▲	Cat.	Qty 1+
Soft cover, 428 pages, 240 x 184mm	BM-2470	\$49.95

MICROCONTROLLER - PIC

Through Hole



Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
PIC12C508A-04P	8	8 Bit Micro	ZZ-8602	\$2.95	\$2.60	\$2.00
PIC12C509A-04P	8	8 Bit Micro	ZZ-8600	\$2.95	\$2.60	\$2.00
PIC12F675	8	8 bit flash micro	ZZ-8603	\$5.95	\$5.25	\$4.15
PIC16C711-20/P	18	8 bit micro +				
		A to D converter	ZZ-8550	\$12.95	\$11.35	\$8.95
PIC16C63A-20I/SP	28	8 bit micro +				
		A to D converter	ZZ-8560	\$14.50	\$12.35	\$9.75
PIC16F84A-20I/P	18	8 bit flash/EEPROM micro	ZZ-8500	\$12.95	\$11.35	\$8.95
PC16F88-I/P	18	8 bit enhanced flash micro + nanowatt technology	ZZ-8530	\$11.95	\$10.70	\$8.25
PIC16F628-I/P	18	8 bit flash micro	ZZ-8520	\$7.45	\$6.65	\$5.15
PIC16F877A-I/P	40	8 bit enhanced flash micro	ZZ-8540	\$12.95	\$11.35	\$8.95

SMD

• Sold as a pack of 5



Type	Case	Description	Cat	Qty 1+
PIC16C711-20I/SO	SOIC18	8 bit micro +		
		A to D converter	ZZ-8552	\$14.95
PIC16F628A-20/SO	SOIC18	8 bit flash micro	ZZ-8510	\$19.95

INTEGRATED CIRCUITS

Special Function

• Major brands only



Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
1488	14	Quad line driver RS-232	ZZ-8148	\$3.75	\$3.30	\$2.60
1489	14	Quad line receiver RS-232	ZZ-8149	\$3.75	\$3.30	\$2.60
27C256	28	256k (32k x 8) EPROM	ZZ-8471	\$14.95	\$13.35	\$10.35
24LC16B	8	16k I-C serial EEPROM	ZZ-8480	\$3.75	\$3.30	\$2.60
24LC256	8	256k I-C serial EEPROM	ZZ-8485	\$5.95	\$5.25	\$4.15
ADC0804	20	8 bit A to D converter	ZK-8862	\$14.95	\$13.35	\$10.35
DAC0800LCN	16	8 bit D to A converter	ZK-8864	\$7.95	\$7.10	\$5.50
L6202	18	Full bridge driver 1.5A 48V	ZK-8874	\$14.95	\$13.35	\$10.35
MAX 232	16	Dual RS232 driver/receiver	ZK-8824	\$6.95	\$6.25	\$4.75
MC34063	8	DC to DC converter	ZK-8837	\$7.95	\$7.10	\$5.50
UA494/TL494	16	Switchmode power controller	ZK-8850	\$6.95	\$6.25	\$4.75
ULN2003N	16	7 Darlington array (5V TTL, CMOS)	ZK-8855	\$4.95	\$4.45	\$3.45
XR2206	16	Monolithic function generator	ZK-8830	\$19.95	\$17.70	\$13.70
XR2211	14	FSK demodulator/tone decoder	ZK-8831	\$9.95	\$8.75	\$6.75

8Bit 257 Step Digital Pot - MCP4151-103E/P

8Bit (257 step) digital pots are useful in application that require precision control. They can be used for example in the feedback network of an op amp to provide precise variable gain control, or filters to allow accurate adjustment of the filter properties.



Type	Pins	Description	Cat	Qty 1+	Qty 10+	Qty 25+
MCP4151-103E/P	8	Digital pot 257 step 10k Ohm	ZK-8879	\$3.95	\$3.50	\$2.75

Programming & Customising the PIC Microcontroller Book

Tap into the latest advances in PIC technology with the fully revamped third edition of this brilliant book. Certainly the definitive text on the subject, this indispensable volume comes with more than 600 illustrations and provides comprehensive, easy-to-understand coverage of the PIC microcontroller's hardware and software schemes. With 100 experiments, projects and libraries, you get a firm grasp of PICs, how they work and the ins-and-outs of their most dynamic applications. This updated edition features a streamlined, more accessible format and concentrates on the three major PIC families, to help you fully understand Assembly, BASIC, and C programming languages. It also covers the latest program development tools and includes a refresher in electronics and programming as well as reference material.

Topics covered:

- Setting up your own PIC microcontroller development lab
- PIC MCU basics
- Useful tables and data
- PIC microcontroller interfacing capabilities, software development, and applications
- Basic & digital electronics
- BASIC & C references
- 16-bit numbers
- Useful circuits and routines



▲	Cat.	Qty 1+
Soft cover, 1263 pages	BT-1347	\$109.00

Digital Signal Controllers

- High performance enhanced flash digital signal controllers
- 16 bit architecture

Type	Memory	SRAM
DSPIC30F2010	12kB/4kB	512B
DSPIC33FJ128GP802	128kB	16kB



Type	Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
dsPIC30F2010	28	ZZ-8575	\$17.95	\$15.95	\$12.35
dsPIC33FJ128GP802	28	ZZ-8605	\$18.95	\$16.95	\$12.95

PIC18F4550 Microcontroller with USB Interface

Adding a USB interface to a project can often be a complex and difficult task, often involving a dedicated IC just to perform the USB control. With this PIC, you can do both I/O logic with your project and perform the USB communications with just one IC. USB will still require a bit of work but it won't be as complex any more as having to source a dedicated IC and learn how to use it. This PIC is ideal for embedded control and monitoring applications which require connection to a computer for data up/download, or firmware updates. This PIC is feature packed:

- Enhanced Flash and nanoWatt technology
- 2kB memory for data
- Full Speed USB 2.0 interface (12Mbps)
- I²C[™] and SPI[™] interface (10Mbps)
- Asynchronous serial port
- 48MHz performance (12MIPS)



Type	Cat.	Qty 1+	Qty 10+	Qty 25+
PIC18F4550	ZZ-8570	\$21.95	\$19.70	\$15.25

SMD SPECIAL FUNCTION ICs

Dual RS-232 Line Driver/Receiver

Case SOIC16

- Dual RS-232 driver/receiver
- Sold as a pack of 10



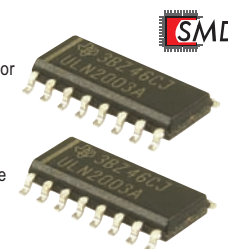
Type	Cat.	Qty 1+
MAX232CWE	ZK-8822	\$59.95

SMD 7 Darlington Array

High voltage, high current Darlington arrays each contain seven open collector Darlington pairs with common emitters. Each channel rated at 500mA and can withstand peak currents of 600mA.

Suppression diodes are included for inductive load driving and the inputs are pinned opposite the outputs to simplify board layout.

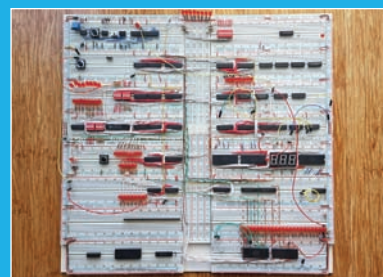
• Sold as a pack of 10



Type	Cat.	Qty 1+
ULN2003D	ZK-8858	\$36.95

SHOW US YOUR BUILD COMPETITION

Cullen, who shops at our Jaycar O'Connor store built:



Programmable 8 bit breadboard CPU built with Jaycar 7400 series IC's and a variety of other parts. This 8-bit computer is cable of basic math and conditional logic. It has 256 bytes of program memory as well as its own instruction set.

SPECIALTY ICs

TDA1905 5W Amplifier IC with Mute

Monolithic integrated circuit in POWERDIP package, intended for use as low frequency power amplifier in a wide range of applications in radio and TV sets:

- Muting facility
- High supply voltage rejection
- Voltage range 4V to 30V
- Protection against chip over temperature
- Power dissipation of up to 6W and a thermal resistance of 15°C/W (junction to pins)
- Very low noise
- Low switch-on noise
- Full data on website



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
TDA1905	ZL-3600	\$6.95	\$6.25	\$4.75

SST49LF020 LPC Flash Memory

The SST49LF020 flash memory device is designed to interface with the LPC bus for PC, game console and Internet Appliance applications. It provides protection for the storage and update of code and data in addition to adding system design flexibility through five General Purpose Inputs (GPI). The SST49LF020 is in compliance with the Intel Low Pin Count (LPC) Interface Specification 1.0. Two interface modes are supported: LPC Mode for In-System programming and Parallel Programming (PP) Mode for fast factory programming.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
SST49LF020	ZZ-8900	\$14.95	\$13.35	\$10.35

Gold Insert Machined Pin

- Anti-wicking very high quality.
- Ideal for professional / portable or field service equipment.



Pins	Width	Cat.	Qty 1+	Qty 10+	Qty 25+
6	0.3"	PI-6450	\$1.15	\$1.00	\$0.90
8	0.3"	PI-6452	\$1.25	\$1.10	\$1.00
14	0.3"	PI-6454	\$1.40	\$1.25	\$1.10
16	0.3"	PI-6456	\$1.65	\$1.45	\$1.30
18	0.3"	PI-6458	\$2.45	\$2.20	\$1.95
20	0.3"	PI-6460	\$2.65	\$2.35	\$2.07
22	0.3"	PI-6462	\$2.75	\$2.45	\$2.15
28	0.6"	PI-6466	\$3.25	\$2.90	\$2.60
40	0.6"	PI-6468	\$4.50	\$3.95	\$3.60

IC Socket Strips

WIRE WRAP PINS

- Gold insert
- 0.1" pitch
- Machined pin



▲ Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
20 Way	PI-6473	\$5.95	\$5.25	\$4.75
32 Way	PI-6472	\$8.50	\$7.50	\$6.75

STANDARD PINS

- Gold insert
- 0.1" pitch
- Machined pin



▲ Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
32 Way	PI-6470	\$3.95	\$3.50	\$3.15

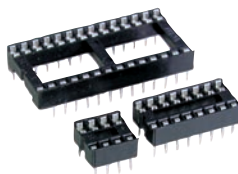
IC SOCKETS

- All 0.1" (2.54mm) pitch

Production PCB Mount

Makes it easy to remove or replace your IC without desoldering.

- Solder tail
- All tin plated phosphor bronze or beryllium copper



LOW COST

▲ Pins	Width	Cat.	Qty 1+	Qty 10+	Qty 25+
6	0.3"	PI-6499	\$0.36	\$0.32	\$0.29
8	0.3"	PI-6500	\$0.38	\$0.34	\$0.30
14	0.3"	PI-6501	\$0.40	\$0.36	\$0.32
16	0.3"	PI-6502	\$0.45	\$0.41	\$0.36
18	0.3"	PI-6503	\$0.50	\$0.45	\$0.40
20	0.3"	PI-6504	\$0.55	\$0.50	\$0.44
22	0.3"	PI-6505	\$0.60	\$0.54	\$0.48
24	0.6"	PI-6506	\$0.65	\$0.59	\$0.52
28	0.6"	PI-6507	\$0.80	\$0.72	\$0.64
28	0.3" NEW	PI-6510	\$0.75	\$0.68	\$0.60
40	0.6"	PI-6508	\$1.00	\$0.85	\$0.75

ZIF Sockets

Zero Insertion Force. Drop the device in and close the lever to contact pins. Ideal for production testing.

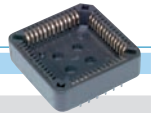


▲ Pins	Cat.	Qty 1+	Qty 10+	Qty 25+
18	PI-6480	\$9.95	\$8.95	\$7.95
28	PI-6483	\$14.50	\$12.35	\$10.95
40	PI-6484	\$15.95	\$14.35	\$12.75

PLCC Sockets - Through Hole

- Gold plated phosphor bronze contacts. • Height: 7.7mm

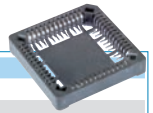
Size	Size L x W mm	Cat.	Qty 1+	Qty 10+
28 pin	18 x 18	PI-6600	\$2.95	\$2.60
44 pin	23.5 x 23.5	PI-6604	\$3.95	\$3.45



Surface Mount

- Silver plated phosphor bronze contacts. • Height: 4.5mm

Size	Size L x W mm	Cat.	Qty 1+
28 pin	18 x 18	PI-6620	\$0.95
84 pin	36 x 36	PI-6630	\$0.95



MEMORY CARD SOCKETS - SURFACE MOUNT

IC/Smart Card Acceptor

These modules are for use in circuit designs incorporating the use of Smart Cards/ IC Cards. They accept either card and feature an internal SPST switch, which is triggered by card insertion. Data sheets and specifications on the website.



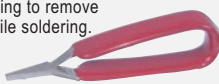
▲	Cat.	Qty 1+
Through Hole Mount	PS-0010	\$4.95



RELATED PRODUCTS

Soldering Heatsink & Component Holder

This quality small tool is ideal as a heatsink when soldering to remove some of the heat from the semiconductor/component while soldering. It can also be used to hold small parts while soldering to avoid burnt fingers. Supplied with insulated handles.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
65mm long	TD-2122	\$7.95	\$7.10	\$6.25

IC Extractor

Deceptively simple looking device.

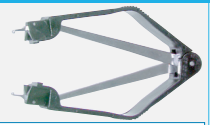
- One piece metal construction
- 8 - 40 pins



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1818	\$3.75	\$3.30	\$2.95

PLCC Extractor

There's really only one way to remove a PLCC safely - and this is it. Basically a spring assisted clip carrier extractor, specifically designed for the safe and hassle free removal of PLCCs from sockets.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1816	\$13.95	\$12.35	\$10.95

Budget SMD Vacuum Pickup Tool

Fits into your pocket and uses vacuum pressure to pick up your sensitive components without damaging them.

- Easy to use, one-hand operation.
- Picks up to 20g in weight.
- Supplied with 3 vacuum pads.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1978	\$17.95	\$15.95	\$14.35

SILICON BIPOLAR TRANSISTORS - MAJOR BRANDS

- Major brands only
- Resin moulded or hermetic metal cases.



TO-264



TO-218



TO-220



TO-218



TO-126



TO-92



TO-3



TO-39

Type	Polarity	Case	P _D @25°C	V _C	I _C	h _{FE} min/max @ I _C cont.		Cat.	Qty 1+	Qty 10+	Qty 25+
BC327	PNP	TO-92	625mW	50	800mA	100/630	100mA	ZT-2110	\$0.48	\$0.43	\$0.34
BC328	PNP	TO-92	625mW	30	800mA	100/630	100mA	ZT-2112	\$0.48	\$0.43	\$0.34
BC337	NPN	TO-92	625mW	50	800mA	100/630	100mA	ZT-2115	\$0.48	\$0.43	\$0.34
BC338	NPN	TO-92	625mW	30	800mA	100/630	100mA	ZT-2116	\$0.48	\$0.43	\$0.34
BC639	NPN	TO-92	830mW	80	1A	63/250	150mA	ZT-2179	\$0.95	\$0.85	\$0.65
BC546	NPN	TO-92	500mW	80	100mA	110/220	2mA	ZT-2150	\$0.30	\$0.27	\$0.21
BC547	NPN	TO-92	500mW	50	100mA	110/800	2mA	ZT-2152	\$0.30	\$0.27	\$0.21
BC548	NPN	TO-92	500mW	30	100mA	110/800	2mA	ZT-2154	\$0.30	\$0.27	\$0.21
BC549	NPN	TO-92	500mW	30	100mA	110/800	2mA	ZT-2156	\$0.30	\$0.27	\$0.21
BC550	NPN	TO-92	500mW	50	100mA	110/800	2mA	ZT-2160	\$0.38	\$0.34	\$0.27
BC556	PNP	TO-92	500mW	80	100mA	125/475	2mA	ZT-2162	\$0.38	\$0.34	\$0.27
BC557	PNP	TO-92	500mW	50	100mA	125/800	2mA	ZT-2164	\$0.30	\$0.27	\$0.21
BC558	PNP	TO-92	500mW	30	100mA	110/800	2mA	ZT-2166	\$0.30	\$0.27	\$0.21
BC559	PNP	TO-92	500mW	30	100mA	110/800	2mA	ZT-2168	\$0.30	\$0.27	\$0.21
BC640	PNP	TO-92	830mW	100	1A	63/250	150mA	ZT-2180	\$0.95	\$0.85	\$0.65
BD135	NPN	TO-126	8W	40	1.5A	63/250	150mA	ZT-2187	\$1.50	\$1.35	\$1.05
BD136	PNP	TO-126	8W	40	1.5A	63/250	150mA	ZT-2188	\$1.50	\$1.35	\$1.05
BD139	NPN	TO-126	8W	80	1.5A	63/250	150mA	ZT-2189	\$1.15	\$1.00	\$0.80
BD140	PNP	TO-126	8W	80	1.5A	63/250	150mA	ZT-2190	\$1.15	\$1.00	\$0.80
BD649	* NPN	TO-220	60W	100	8A	750	3A	ZT-2198	\$2.85	\$2.53	\$1.95
BD650	* PNP	TO-220	60W	100	8A	750	3A	ZT-2199	\$2.85	\$2.53	\$1.95
BD681	* NPN	TO-126	40W	100	4A	750	1.5A	ZT-2193	\$2.25	\$2.00	\$1.55
BD682	* PNP	TO-126	40W	100	4A	750	1.5A	ZT-2192	\$2.25	\$2.00	\$1.55
BF469	NPN	TO-126	1.8W	250	100mA	50	25mA	ZT-2200	\$2.45	\$2.20	\$1.95
BF470	PNP	TO-126	1.8W	250	100mA	50	25mA	ZT-2202	\$2.45	\$2.20	\$1.95

Type	Polarity	Case	P _D @25°C	V _C	I _C	h _{FE} min/max @ I _C cont.		Cat.	Qty 1+	Qty 10+	Qty 25+
MJ10012*	NPN	TO-3	175W	600	10A	300	3A	ZT-2222	\$14.50	\$12.35	\$9.75
MJL21193	PNP	TO-3P	200W	250	16A	25/75	8A	ZT-2227	\$14.50	\$12.35	\$9.75
MJL21194	NPN	TO-3P	200W	250	16A	25/75	8A	ZT-2228	\$14.50	\$12.35	\$9.75
MJ15003	NPN	TO-3	250W	140	20A	25/150	5A	ZT-2230	\$11.95	\$10.45	\$7.95
MJ15004	PNP	TO-3	250W	140	20A	25/150	5A	ZT-2231	\$11.95	\$10.45	\$7.95
MJ2955	PNP	TO-3	115W	100	15A	5	10A	ZT-2235	\$3.45	\$3.05	\$2.35
MJE340	NPN	TO-126	20W	300	500mA	30/240	50mA	ZT-2255	\$2.95	\$2.60	\$2.00
MJE350	PNP	TO-126	20W	300	500mA	30/240	50mA	ZT-2260	\$2.95	\$2.60	\$2.00
MJE2955	PNP	TO-220	75W	70	10A	20/100	4A	ZT-2275	\$2.75	\$2.45	\$1.90
MJE3055	NPN	TO-220	75W	70	10A	20/70	4A	ZT-2280	\$2.75	\$2.45	\$1.90
MPSA06	NPN	TO-92	625mW	80	500mA	100	10mA	ZT-2286	\$0.50	\$0.45	\$0.35
MPSA13*	NPN	TO-92	625mW	30	500mA	5000	10mA	ZT-2287	\$0.50	\$0.45	\$0.35
NJL1302D	PNP	TO-264	200W	260	25A	75/150	15A	ZT-2237	\$16.95	\$14.95	\$11.45
NJL3281D	NPN	TO-264	200W	260	25A	75/150	15A	ZT-2236	\$16.95	\$14.95	\$11.45
TIP2955	PNP	SOT-93	90W	100	15A	20/70	4A	ZT-2270	\$3.45	\$3.05	\$2.35
TIP3055	NPN	SOT-93	90W	100	15A	20/70	4A	ZT-2278	\$3.45	\$3.05	\$2.35
TIP31	NPN	TO-220	40W	40	3A	25/50	1A	ZT-2285	\$1.85	\$1.65	\$1.25
TIP32	PNP	TO-220	40W	40	3A	25/50	1A	ZT-2290	\$1.85	\$1.65	\$1.25
TIP35C	NPN	TO-218	125W	100	25A	15/75	15A	ZT-2293	\$5.95	\$5.25	\$4.15
TIP36C	PNP	TO-218	125W	100	25A	15/75	15	ZT-2294	\$5.95	\$5.25	\$4.15
TIP41C	NPN	TO-220	65W	100	6A	15/75	3A	ZT-2291	\$2.15	\$1.90	\$1.50
TIP42C	PNP	TO-220	65W	100	6A	15/75	3A	ZT-2289	\$2.15	\$1.90	\$1.50
TIP122	* NPN	TO-220	65W	100	5A	1000	3A	ZT-2292	\$2.15	\$1.90	\$1.50

Type	Polarity	Case	P _D @25°C	V _C	I _C	h _{FE} min/max @ I _C cont.		Cat.	Qty 1+	Qty 10+	Qty 25+
2N2222A	NPN	TO-92	1.8W	75	800mA	100/300	150mA	ZT-2298	\$0.40	\$0.36	\$0.28
2N2907	PNP	TO-92	400mW	40	600mA	100/300	150mA	ZT-2322	\$1.15	\$1.00	\$0.80
2N3053	NPN	TO-39	1W	60	700mA	50/250	150mA	ZT-2299	\$1.15	\$1.00	\$0.80
2N3055	NPN	TO-3	115W	100	15A	20/70	4A	ZT-2300	\$2.95	\$2.60	\$2.00
2N3638	PNP	TO-92	300mW	25	500mA	30/130	30mA	ZT-2320	\$1.65	\$1.45	\$1.15
2N3773	NPN	TO-3	150W	160	16A	15/60	8A	ZT-2324	\$9.95	\$8.75	\$6.75
2N3904	NPN	TO-92	625mW	60	200mA	70	1mA	ZT-2326	\$0.75	\$0.68	\$0.53
2N3906	PNP	TO-92	625mW	40	200mA	80	1mA	ZT-2328	\$0.75	\$0.68	\$0.53

* Denotes Darlington type

Data representative only. Please download the manufacturers data sheet if values are critical.

TRANSISTORS MULTI-REPLACEMENT

Multi-Replacement Common Transistors

Two transistors which will replace a multitude of common hard to get devices.

Both are TO-92 package.



PN100

NPN general purpose medium power amp and switch with continuous collector current up to 500mA. PN100 replaces PN2221, PN2222, PN2222A, PN3565, PN3568, PN3569, PN3643, PN5133, 2N2219A, 2N2222A, 2N3414, 2N3415, 2N3416, 2N3417, 2N3700, 2N3704, 2N3904, 2N4123, 2N4124, 2N4401, 2N5088 and 2N5210.

▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	ZT-2283	\$0.40	\$0.36	\$0.28

Type	Polarity	Case	Vce	Ic	h _{FE} min/max
PN100	NPN	TO-92	45V	500	80-600
PN200	PNP	TO-92	45V	500	80-600

PN200

PNP general purpose amplifier at collector currents to 500mA.

PN200 replaces PN2907, PN2907A, PN3638, PN3638A, PN3640, PN3644, PN4121, PN4143, PN4248, PN4249, PN4250, PN4355, PN4916, PN4917, PN5910, 2N2905A, 2N3467, 2N3702, 2N3906, 2N4125, 2N4126, 2N4291, 2N4402, 2N4403, 2N5086, 2N5087, 2N5447

▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	ZT-2284	\$0.40	\$0.36	\$0.28

TRANSISTOR PACKS

Prototype Pack

TRANSISTOR PACK

100 mixed BC series transistors.
More of the common types.

- 15 x BC547
- 20 x BC548
- 20 x BC549
- 15 x BC557
- 15 x BC558
- 15 x BC559



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	ZT-2170	\$16.95	\$14.95	\$11.70

SMD Transistor Packs

BC817

Equivalent to BC547/8

- NPN
- SOT23-3
- 45V

Cat. ZT-2118

BC807

Equivalent to BC557/8

- PNP
- SOT23-3
- 45V

Cat. ZT-2121



▲	Type	Pack	Cat.	Qty 1+	Qty 10+	Qty 50+
	BC817	10	ZT-2118	\$1.95	\$1.75	\$1.35
	BC807	10	ZT-2121	\$1.95	\$1.75	\$1.35

TRANSISTOR CLAMPS

- To clamp TO-220 devices to a heatsink.

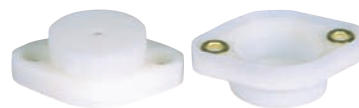


▲	Type	Pkt	Cat.	Qty 1+	Qty 10+	Qty 50+
	Dual TO-220	ea	HH-8610	\$1.45	\$1.30	\$1.15
	Single TO-220	10	HH-8600	\$8.95	\$7.95	\$6.95
	Single TO-220	100	HH-8602	\$24.95	\$22.35	\$19.70
	Dual TO-220	100	HH-8607	\$19.95	\$17.70	\$13.70

Full TO-3 Insulating Cap

Ideal for insulating 'live' transistors or for simply keeping prying fingers away from potentially dangerous transistor cases.

- Fastens to the transistor
- Has a single ventilation hole to decrease chance of overheating.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZM-9904	\$1.70	\$1.50	\$1.15

INSULATION KITS

SILICONE RUBBER TRANSISTOR INSULATORS

Silicone impregnated rubber washers. Stop using messy silicone grease. These washers are made from silicone rubber and are as effective as mica and grease.

HP-1150



PHYSICAL PROPERTIES

Colour	grey
Tensile strength	40kg/cm2
Elongation	80%
Dielectric breakdown voltage	4000/0.3mm
Co-efficient of thermal conductance	2.4 x 10-3
Flammability class	94V-0/0.3mm
Dimensional stability	0.2% change/0.3mm

▲	Type	Pkt	Cat.	Qty 1+	Qty 4+	Qty 10+
	TO-3	20	HP-1150	\$12.50	\$10.70	\$9.50
	TO-220	20	HP-1155	\$6.95	\$6.25	\$5.50
	TO-220	100	HP-1156	\$17.95	\$15.95	\$14.35

Bushes to suit silicone impregnated rubber washers & mica washers TO220 - Pkt 100

▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	HP-1166	\$9.95	\$8.75	\$6.75

SILICONE RUBBER INSULATING KITS

HP-1172



HP-1174



▲	Type	Washers	Bushes	Cat.	Qty 1+	Qty 10+	Qty 25+
	TO-3	4	8	HP-1172	\$3.75	\$3.30	\$2.60
	TO-3P	4	4	HP-1174	\$3.75	\$3.30	\$2.60
	TO-220	4	4	HP-1176	\$3.50	\$3.15	\$2.45

TO-3 & TO-220 MICA INSULATING KITS

Mica washers and bushes



▲	Type	Pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
	TO-3	4	HP-1122	\$3.50	\$3.15	\$2.45
	TO-220	4	HP-1142	\$1.95	\$1.75	\$1.35
	TO-220	100	HP-1140	\$14.95	\$13.35	\$10.35

ADHESIVE TRANSISTOR MOUNTING WASHER KITS

Adhesive silicone washers with good thermal conductivity. Makes installation of transistors a snap! Complete kit supplied including washer and bushes.

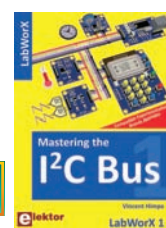


▲	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
	TO-220	HP-1160	\$9.95	\$8.95	\$7.95
	TO-3	HP-1161	\$10.95	\$9.85	\$8.75
	TO-3P	HP-1162	\$9.95	\$8.95	\$7.95

Mastering the I2C Bus

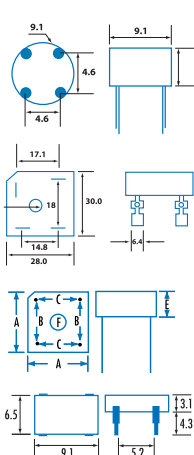
This book takes you on an exploratory journey of the I²C Bus and its applications. In addition to the Bus protocol, focus is given to practical applications and solid design technique. Full of helpful tips and tricks, this book works equally well as an Introductory guide and as a workshop handbook.

- Soft cover, 250 pages.
- 235 x 170 x 14mm



▲	Cat.	Qty 1+
	BT-1386	\$59.95

BRIDGE RECTIFIERS



ZR-1304

ZR-1320

ZR-1314

ZR-1320

A=15.3mm

A=19.6mm

B=8.8mm

B=13.2mm

C=9.1mm

C=13.2mm

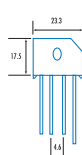
E=6.4mm

E=7.5mm

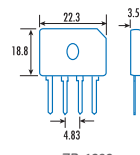
F=ø4mm

F=ø6mm

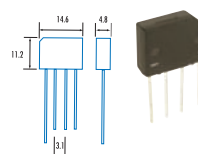
ZR-1308



ZR-1360



ZR-1362



ZR-1350

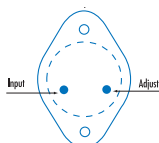
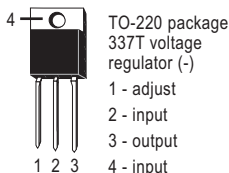
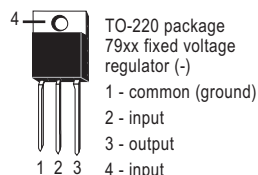
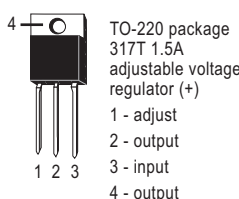
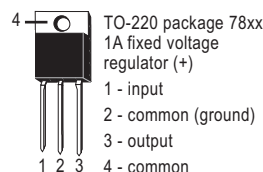
Bridge Rectifiers

Type	Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
DB104	400V	1A	ZR-1308	\$1.25	\$0.90	\$0.65
W04	400V	1.2A	ZR-1304	\$0.85	\$0.64	\$0.47
BR64	400V	6A	ZR-1314	\$2.50	\$1.85	\$1.35
BR106	600V	10A	ZR-1320	\$2.85	\$2.10	\$1.50
MB354	400V	35A	ZR-1324	\$5.50	\$4.10	\$3.00

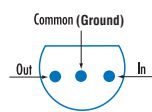
Inline Bridge Rectifiers

Type	Voltage	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
RS206	800V	2A	ZR-1350	\$2.25	\$1.65	\$1.20
KBU604	400V	6A	ZR-1360	\$3.35	\$2.45	\$1.80
GBU806	800V	8A	ZR-1362	\$3.95	\$2.90	\$2.10

VOLTAGE REGULATORS



Connections for the TO-3 LM317K & LM350K (viewed from bottom)



Connections for TO-92 78LXX (viewed from bottom)

Standard Voltage Regulators

Type	Vout	Iout	Case	Cat.	Qty 1+	Qty 10+	Qty 25+
7805/LM340T5	+5V	1A	TO-220	ZV-1505	\$1.85	\$1.65	\$1.25
7806/LM340T6	+6V	1A	TO-220	ZV-1506	\$1.85	\$1.65	\$1.25
7808/LM340T8	+8V	1A	TO-220	ZV-1508	\$1.85	\$1.65	\$1.25
7809/LM340T9	+9V	1A	TO-220	ZV-1509	\$1.85	\$1.65	\$1.25
7812/LM340T12	+12V	1A	TO-220	ZV-1512	\$1.85	\$1.65	\$1.25
7815/LM340T15	+15V	1A	TO-220	ZV-1515	\$1.85	\$1.65	\$1.25
7824/LM340T24	+24V	1A	TO-220	ZV-1524	\$1.85	\$1.65	\$1.25
78L05	+5V	100mA	TO-92	ZV-1539	\$1.50	\$1.35	\$1.05
78L12	+12V	100mA	TO-92	ZV-1542	\$1.50	\$1.35	\$1.05
7905/LM320T5	-5V	1A	TO-220	ZV-1525	\$1.85	\$1.65	\$1.25
7909/LM320T9	-9V	1A	TO-220	ZV-1530	\$1.85	\$1.65	\$1.25
7912/LM320T12	-12V	1A	TO-220	ZV-1532	\$1.85	\$1.65	\$1.25
7915/LM320T15	-15V	1A	TO-220	ZV-1535	\$1.85	\$1.65	\$1.25
LM317K	+1.2 to +37V	1.5A	TO-3	ZV-1610	\$6.95	\$6.25	\$4.75
LM317T	+1.2 to +37V	1.5A	TO-220	ZV-1615	\$2.95	\$2.60	\$2.00
LM337T	-1.2 to -37V	1.5A	TO-220	ZV-1620	\$4.25	\$3.75	\$2.95
LM350K	+1.2 to +33V	3A	TO-3	ZV-1635	\$19.95	\$17.95	\$13.95
LM723CN	+2.0 to +37V	150mA	DIP14	ZV-1676	\$2.25	\$2.00	\$1.55
MC78T12	+12V	3A	TO-220	ZV-1634	\$4.95	\$4.45	\$3.45

Switching Voltage Regulators

Type		Vout	Iout	Case	Cat.	Qty 1+	Qty 10+	Qty 25+
LM2576T-ADJ	Stepdown	+1.23 to +37V	3A	TO-220	ZV-1640	\$16.95	\$14.95	\$11.70
LM2577T-12	Stepup	+12V	3A	TO-220	ZV-1642	\$16.95	\$14.95	\$11.70
LM2678T-5.0	Stepdown	+5V	5A	TO-220	ZV-1636	\$16.95	\$14.95	\$11.70
LM2678T-12	Stepdown	+12V	5A	TO-220	ZV-1637	\$16.95	\$14.95	\$11.70
TL499ACP	Controller	+2.9 to +30V	100mA	DIP8	ZV-1644	\$3.95	\$3.50	\$2.75

Low Dropout Regulators

Type	Description	Case	Vin (Typ)	Vout Iout (max)	Vdrop (Vout-Vin)	Cat.	Qty 1+	Qty 10+	Qty 25+
LM3940	Fixed voltage	TO-220	4.5 to 5.5V	+3.3V 1.0A	500mV at 1A	ZV-1565	\$4.25	\$3.80	\$2.95
LM2936-3.3	Ultra low quiescent current	TO-92	4.0 to 26V	+3.3V 50mA	200mV at 50mA	ZV-1650	\$4.95	\$4.45	\$3.45
LP2951ACN	Micropower adjustable voltage	DIP8	2.0 to 30V	+1.24 to +29V 100mA	380mV at 100mA	ZV-1646	\$2.50	\$2.20	\$1.75
LM2940CT-5.0	Fixed voltage	TO-220	6.25 to 26V	+5V 1.0A	500mV at 1A	ZV-1560	\$8.65	\$7.50	\$5.75
LM2940CT-12	Fixed voltage	TO-220	13.6 to 26V	+12V 1.0A	500mV at 1A	ZV-1562	\$8.65	\$7.50	\$5.75
LM2936-5.0	Ultra low quiescent current	TO-92	5.5 to 26V	+5V 50mA	200mV at 50mA	ZV-1652	\$4.95	\$4.45	\$3.45
LM1085IT-12	Fixed voltage, high current	TO-220	13.5 to 25V	+12V 3.0A	1.3V at 3A	ZV-1564	\$8.95	\$7.95	\$6.25
LP2950ACZ-5.0	Micropower fixed voltage	TO-92	6.0 to 30V	+5V 100mA	380mV at 100mA	ZV-1645	\$2.65	\$2.35	\$1.85
MCP1703-5002E/CB	Ultra low quiescent current	SOT-23	5.33 to 16V	+5V 250mA	330mV at 250mA	ZV-1545	\$23.95	\$21.35	\$16.70

THERMISTORS

Negative Temperature Coefficient Thermistors

These devices are made of a special ceramic material which changes resistance value rapidly with temperature increase. They are commonly used to check thermal runaway in bipolar transistor amplifiers etc, but really have dozens of other uses. They are rugged and very reliable.

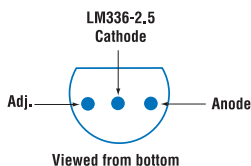
- Resistance at 25°C +/- 10%
- Temperature Range -20°C ~ +125°C
- Thermal dissipation constant: 6mW/°C
- Type-NTC Ceramic material with tinned copper lead
- Dissipation (MAX) 500mW
- Case 5mm diameter
- Radial type, dipped epoxy



Resistance (Ω)	Max Current (mA)	Cat.	Qty 1+	Qty 25+	Qty 100+
15	250	RN-3430	\$1.75	\$1.20	\$1.05
100	200	RN-3432	\$1.75	\$1.20	\$1.05
500	100	RN-3434	\$1.75	\$1.20	\$1.05
1k	80	RN-3436	\$1.75	\$1.20	\$1.05
4.7k	45	RN-3438	\$1.75	\$1.20	\$1.05
10k	30	RN-3440	\$1.75	\$1.20	\$1.05
47k	20	RN-3442	\$1.75	\$1.20	\$1.05
100k	15	RN-3444	\$1.75	\$1.20	\$1.05

VOLTAGE REFERENCE DIODES

Provides a stable 2.5V reference point for circuitry and can be used to make portable meters, regulators or general purpose analog circuitry.



Type	Vref	If (min)	Case	Cat.	Qty 1+	Qty 10+	Qty 25+
LM336-2.5	2.5V	10mA	TO-92	ZV-1624	\$3.95	\$3.50	\$2.75

SCRS / TRIACS / DIACS

SCRs

SILICON CONTROLLED RECTIFIERS - Reverse blocking thyristors glassivated PNP devices designed for high volume consumer applications such as temperature, light and speed control, process and remote control and warning systems where reliability of operation is important.

- Glassivated surface for reliability and uniformity
- Power rated at economical prices • Sensitive gate triggering
- Practical level triggering and holding characteristics
- Flat, rugged, thermopad construction for low thermal resistance, high heat dissipation and durability.



Type	Vmax	IE(A)	VF(V)	IG(μA)	VG(V)	Hold In(mA)	Cat.
BT169D	400V	0.8	1.2	50	0.5	2	ZX-7010
C106D1	400V	4	2.2	200	0.8	3	ZX-7006
C122E / MCR8M / BT151	500V	8	1.8	25mA	1	30	ZX-7012

▲	Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
BT169D	400V	ZX-7010	\$2.95	\$2.60	\$2.00
C106D1	400V	ZX-7006	\$2.95	\$2.60	\$2.00
C122E / MCR8M / BT151	500V	ZX-7012	\$5.50	\$4.90	\$3.75

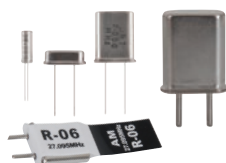
CRYSTALS

Crystals

Freq Tolerance: +/- 30Hz per 1MHz.
Operating Temp: -20 to +70°C. Load
Capac: 30pF typ.

RC Crystal TX/RX

- Used in remote control circuits
- Supplied as a pair



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
27.095MHz	RQ-5275	\$9.95	\$8.75	\$7.75
27.125MHz	RQ-5276	\$9.95	\$8.75	\$7.75
27.145MHz	RQ-5277	\$9.95	\$8.75	\$7.75
27.175MHz	RQ-5278	\$9.95	\$8.75	\$7.75
27.195MHz	RQ-5279	\$9.95	\$8.75	\$7.75

Freq.(MHz)	WxDxH(mm)	Case	Max ESR	Cat.	Qty 1+	Qty 10+	Qty 25+
2.00	11.05 x 4.65 x 13.46	HC49U	500Ω	RQ-5268	\$4.50	\$3.95	\$3.60
3.2768	11.05 x 4.65 x 13.46	HC49U	90Ω	RQ-5271	\$4.50	\$3.95	\$3.60
3.5795	11.05 x 4.65 x 13.46	HC49U	90Ω	RQ-5272	\$4.50	\$3.95	\$3.60
4.000	11.05 x 4.65 x 13.46	HC49U	70Ω	RQ-5274	\$4.50	\$3.95	\$3.60
4.433619	11.05 x 4.65 x 13.46	HC49U	70Ω	RQ-5284	\$4.50	\$3.95	\$3.60
6.00	11.05 x 4.65 x 13.46	HC49U	60Ω	RQ-5285	\$4.50	\$3.95	\$3.60
8.00	11.05 x 4.65 x 13.46	HC49U	30Ω	RQ-5287	\$4.50	\$3.95	\$3.60
10.00 (P)	11.05 x 4.65 x 13.46	HC49U	30Ω	RQ-5289	\$4.50	\$3.95	\$3.60
12.00	11.05 x 4.65 x 13.46	HC49U	30Ω	RQ-5293	\$4.50	\$3.95	\$3.60
20.00	11.05 x 4.65 x 13.46	HC49U	25Ω	RQ-5299	\$4.50	\$3.95	\$3.60
32.768kHz	3.1 x 3.1 x 8	DT38	35kΩ	RQ-5297	\$4.50	\$3.95	\$3.60
38kHz Mini	3 x 8.5		40Ω	RQ-5298	\$4.50	\$3.95	\$3.60

WHAT DOES "EMBEDDED SYSTEM" MEAN?

These days you hardly get through a few pages of microprocessor technology magazines without the term "embedded" or "embedded architecture" being mentioned in relation to some article or other. There seems to be a universal assumption that everyone knows what is meant by the term "embedded." Well, for those who were too frightened to ask, here is an explanation:

An embedded system is a dedicated circuit, generally centred around a microprocessor (or micro controller) which has a software program stored in dedicated on-board memory or in the memory of the microprocessor itself that has a SPECIFIC computational purpose. A calculator, is, for example an embedded system. It is specifically made to perform a particular task. A mobile phone is another example of an embedded system. A controller for a washing machine or a microwave oven is an example of an embedded system also. In other words, the application is specifically embedded in the system architecture. Typically a personal computer has a "general purpose" application.

Both personal computers and embedded systems are programmed by high level languages, but nowadays the programming language in a PC is less obvious as the PC generally powers up to an application's menu automatically. The embedded system, on the other hand requires you to program the device directly through a programming language like 'C' etc. Interestingly, Smartphone which can still be regarded as an embedded system are looking more and more like PCs every day. Maybe the definitions will need to be redefined in future.

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.
We're here to help.

WHAT IS AN ARM MICROPROCESSOR / MICROCONTROLLER?

The term ARM stands for Advanced Risc Machine. The first manufacturer to describe their micro product in this way was, we think, AT&T. The processor is quite sophisticated, as it runs 32-bit architecture. The ARM concept has proven to be popular and many manufacturers produce ARM-like devices. RISC Normally a 32-bit architecture would require a massive internal instruction set to manage the operation of the device. The problem is, a complex instruction set shows the speed of the machine significantly.

Some time ago, some clever engineers realised that reducing the actual instruction set down to a minimum increased the processing speed performance out of all proportion to the marginal ambiguities that a large, complex instruction set was meant to eliminate. So, to repeat, an ARM processor is a very powerful 32-bit machine that is very, very fast for its cost. With 32-bit architecture "Embedded" platforms have revolutionized what can be done with small, low-power Do-it-yourself circuits.

TRIACS

Type	Vmax	IE(A)	VF(V)	IG(mA)	VG(V)	Hold In(mA)	Cat.
SC141D	400	6	2	50	2.5	50	ZX-7141
SC151D	400	15	1.6	50	2	50	ZX-7145
TAG225	400	5	2	25	2.5	25	ZX-7147
BT137X	600	8	1.65	25	1.5	<20	ZX-7149*

*Note: ZX-7149 is isotab - mounting tab is dielectrically isolated.

TO-220

▲	Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
SC141D	400V	ZX-7141	\$4.95	\$4.45	\$3.45
SC151D	400V	ZX-7145	\$6.50	\$5.75	\$4.45
TAG225	400V	ZX-7147	\$3.95	\$3.50	\$2.75
BT137X	600V	ZX-7149	\$3.75	\$3.30	\$2.60

DIAC

- Will trigger most devices above with a suitable timing circuit (DO-41)

Type	VCO	IFmax	ISW	VSW	Cat.	Qty 1+	Qty 10+	Qty 25+
ST2	3.5V	5mA	27	35V	ZX-7192	\$1.85	\$1.65	\$1.25

WHAT IS A ZENER DIODE AND HOW DOES IT WORK?

A Zener diode works like a normal diode in the FORWARD direction, but when voltage is applied in the REVERSE direction it does something really useful. At a specified reverse voltage it starts to conduct. In other words, if you apply, say 12V (for a 12V Zener) across the diode it will start to conduct current. See diagram:

When the Zener starts to draw current, this has the effect of regulating the positive (+) voltage.

Note: As the Zener draws current, this will turn into heat. The Zener therefore has a wattage rating (as well as its Zener voltage rating) this may not be exceeded. Jaycar carries a range of Zener diodes from 3.3V to 75V.

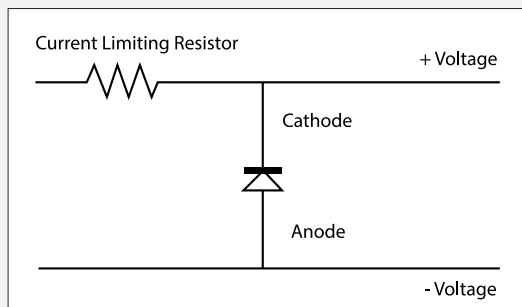
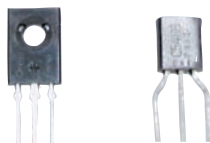


Fig 1. As positive (+) voltage climbs up to 12 volts the 12V Zener starts to conduct, drawing current

MOSFETS, FETs, UJTs

MOSFETs, FETs, UJTs

• Major brands



UJTs

Type	Voltage	Description	Pack	Cat.	Qty 1+	Qty 10+	Qty 25+
2N2646	30V	UJT PN 300mW	TO-5	ZT-2297	\$9.95	\$8.95	\$6.95
2N6027	40V	UJT Programmable 300mW	TO-92	ZT-2397	\$1.95	\$1.75	\$1.35

FETs/JFETs

Type	Voltage	Current	Description	Pack	Cat.	Qty 1+	Qty 10+	Qty 25+
2N5484	25V	10mA	JFET N-Ch VHF/UHF Amp	TO-92	ZT-2375	\$2.95	\$2.65	\$2.05
2N7000	60V	200mA	FET D-MOS N-Ch Relay Driver	TO-92	ZT-2400	\$0.75	\$0.68	\$0.53
MPF102	25V	10mA	JFET N-Ch VHF Amp	TO-92	ZT-2262	\$2.45	\$2.21	\$1.95
MPF106/2N5485	25V	10mA	JFET N-Ch VHF/UHF Amp	TO-92	ZT-2266	\$2.45	\$2.20	\$1.70
VN10KM	60V	300mA	FET N-Ch	TO-92	ZT-2452	\$4.95	\$4.45	\$3.45

MOSFETs

Type	Voltage	Current	Description	Pack	Cat.	Qty 1+	Qty 10+	Qty 25+
BUZ71	50V	14A	MOSFET N-Ch Power	TO-220	ZT-2225	\$4.95	\$4.45	\$3.45
IRF9540N	100V	23A	MOSFET P-Ch Power	TO-220	ZT-2467	\$5.95	\$5.25	\$4.15
IRF1405N	55V	169A	MOSFET N-Ch Automotive	TO-220	ZT-2468	\$5.95	\$5.25	\$4.15
IRF540N	100V	33A	MOSFET N-Ch Power	TO-220	ZT-2466	\$5.95	\$5.25	\$4.15
ST16NE06	60V	16A	MOSFET N-Ch Power	TO-220	ZT-2277	\$2.95	\$2.60	\$2.00
STP60NF06/								
BUK-456-60	60V	60A	FET N-Ch Power	TO-220	ZT-2450	\$9.95	\$8.95	\$6.95
SUP53P06-20	60V	53A	MOSFET P-Ch	TO-220	ZT-2464	\$5.95	\$5.25	\$4.15

TRANSDUCERS

Ultrasonic Transducer

- Compact and lightweight
- High sound pressure level
- Low power consumption
- High sensitivity, reliability & stability
- Transmitter & receiver in one unit

Application:

- Parking sensors
- Proximity sensor
- Motion detector
- Automatic doors
- Intruder alarm
- Water level meter



SPECIFICATIONS	AU-5550		
Frequency	40kHz	Input voltage	140V
Transmitting sound pressure	>105dB	Operating temperature	-40°C to +85°C
Receiving sensitivity	>-74dB		

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	AU-5550	\$6.95	\$6.25	\$5.50

PELTIER MODULES

Thermoelectric (Peltier) Modules

These are a solid-state devices which operate as a heat pump to transfer heat utilising the Peltier effect. Suitable for cooling or heating applications up to 100°C.

- Measures: 40 x 40 mm with lead wires
- Temperature differential (DT) (Th=27°C): >=68°C
- Optimum input voltage (Vmax) (Th=27°C): 15V

33.4W ZP-9100

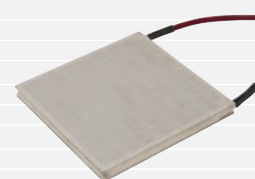
Optimum input current (Imax) (Th=27°C) 4A
Maximum cooling power (Qmax) 33.4W

51.4W ZP-9102

Optimum input current (Imax) (Th=27°C) 6A
Maximum cooling power (Qmax) 51.4W

68.09W ZP-9104

Optimum input current (Imax) (Th=27°C) 8A
Maximum cooling power (Qmax) 68.09W



▲ Cooling Power	Cat.	Qty 1+	Qty 10+	Qty 25+
33.4W	ZP-9100	\$21.95	\$19.45	\$17.45
51.4W	ZP-9102	\$24.95	\$22.45	\$19.95
68.09W	ZP-9104	\$27.95	\$24.95	\$21.95

VALVE SOCKETS

Valve Sockets

9 PIN:

This unit is moulded from high grade thermosetting resin. The pins are adequately plated and have deep solder terminals, sufficient for several hard wiring points per pin. Sturdy flange mount is meant for fitting above the chassis.



8 PIN:

Made from similar materials to above, but with moulded key. Can be mounted above or below the chassis.

▲	Cat.	Qty 1+	Qty 10+	Qty 50+
9 Pin	PS-2082	\$6.95	\$6.25	\$5.50
8 Pin	PS-2080	\$7.95	\$7.10	\$6.25

SMART CARDS

Wafer Cards

With PIC16F84A + 24LC16B Inbuilt (GOLD). This is a multi-chip 'smart card' based on the PIC 16F84A and is coupled with a 24LC16B EEPROM, and compatible with most reader/programmer units available.

- 16K memory.
- ISO 7816-1 compatible pin-out and card body
- DC to 10 MHz operating speed
- Reprogrammable with code protection
- 1024 x 14 on-chip programmable memory
- 64 x 8 internal EEPROM memory
- Enhanced code protection
- Greater than 1,000,000 Write/ Erase cycles



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Gold	ZZ-8800	\$11.95	\$10.70	\$8.25

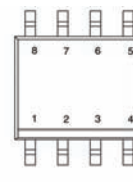


See our range of Heatsinks on page 250.

Dual N-Channel 30V MOSFET - Si4944DY

This handy dual N-channel MOSFET can be used in many projects such as DC-DC conversion and switching circuits. They have extremely low on-resistance ($r_{DS(on)}$ 0.016Ω

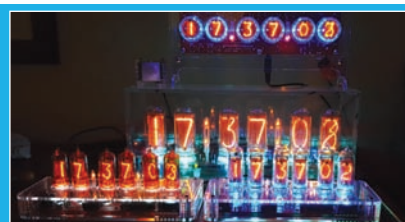
$V_{GS} = 4.5V$) and fast switching/low capacitance. They are very useful as analog switches as well as the traditional uses for MOSFETs eg, relay driving, LED driving, etc.



Type	Case	Pkt	Cat.	Qty 1+	Qty 10+	Qty 25+
Si4944DY	SOIC8	EA	ZK-8821	\$5.50	\$4.90	\$3.75

SHOW US YOUR BUILD COMPETITION

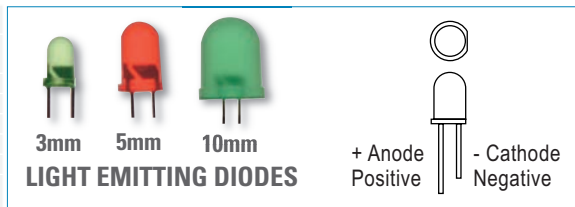
Mark, who shops at our Jaycar Wagga Wagga store built:



These are Nixie clocks, put together using soldering tools and solder from Jaycar. The kids like different types of Nixie tubes put together from kits obtained from England.

STANDARD LEDS

Viewing Angle	Is the complete angle where the luminous intensity is half the on-axis intensity.
Wavelength	Dominant Wavelength of the light emitted in nm (nanometers). This determines the colour of the LED.
IF Typical	Continuous forward current in mA to obtain typical optical characteristics.
VF Typical	Continuous forward voltage in Volts to obtain typical optical characteristics.
IF Max	Maximum continuous forward current in mA at 25°C.
VDD Typical	Operating voltage to obtain typical optical characteristics.
VDD Max	Absolute maximum supply voltage at 25°C.
IV Typical	Light emitted from the LED is quantified by a single point, ie the on-axis luminous intensity value in mcd (millicandela) at IF Typical.



- Luminous intensity (IV) does not represent total light output from an LED. Both the luminous intensity & the spatial radiation pattern (viewing angle) must be taken into account.
- If two LEDs have the same luminous intensity value, the lamp with the larger viewing angle will have the higher total light output.
- Maximum luminous intensity can be achieved by operating the LED in pulsed mode, or maximum continuous forward current.

3mm LEDs

Optical & Electronic Characteristics									Preferred Values Series Resistor (ohms) for			*Cree®			
Size (mm)	Viewing Angle (Degrees)	Colour	Lens	Wavelength, Chromatic (nm), Co-ordinates	IF Typical (mA)	VF Typical (V)	IV Typical (mcd)	Max Continuous IF Max (mA)	5VDC	9VDC	12VDC	Cat.	Qty 1+	Qty 10+	Qty 25+
3	45	Red	Diffused	650	15	2.3	8	15	180	470	680	ZD-0100	\$0.25	\$0.23	\$0.18
3	15	Red	Waterclear	660	20	1.8	1500	30	160	360	510	ZD-0102	\$0.70	\$0.63	\$0.49
3	20	Red	Waterclear	625	20	2.0	2800	50	150	360	510	ZD-0104	\$1.45	\$1.30	\$0.99
3	15	Red	Waterclear	625	20	2.1	7200	30	150	360	510	ZD-0106	\$4.45	\$3.95	\$3.05
3	45	Orange	Diffused	625	20	1.9	30	30	160	360	510	ZD-0119	\$0.35	\$0.32	\$0.25
3	50	Yellow	Diffused	585	20	2.1	10	20	150	360	510	ZD-0110	\$0.25	\$0.23	\$0.18
3	20	Yellow	Waterclear	588	20	2.0	3000	50	150	360	510	ZD-0112	\$1.75	\$1.55	\$1.20
3	15	Yellow	Waterclear	588	20	2.2	7200	50	150	360	510	ZD-0114	\$3.95	\$3.50	\$2.75
3	50	Green	Diffused	573	20	2.3	40	20	130	330	470	ZD-0120	\$0.25	\$0.23	\$0.18
3	20	Green	Waterclear	568	20	2.1	500	30	150	360	510	ZD-0122	\$1.45	\$1.30	\$0.99
3	20	Green	Waterclear	520	20	3.2	6500	20	91	300	470	ZD-0124	\$6.45	\$5.75	\$4.45
3	15	Aqua	Waterclear	505	20	3.5	4000	30	75	270	430	ZD-0126	\$5.45	\$4.90	\$3.75
3	15	Blue	Waterclear	465	20	3.3	1500	20	82	300	430	ZD-0130	\$2.75	\$2.45	\$1.90
3	15	Blue	Waterclear	470	20	3.2	6000	30	91	300	430	ZD-0132	\$5.95	\$5.25	\$4.15
3	15	White	Waterclear	0.31/0.32	20	3.2	1000	20	91	300	430	ZD-0140	\$2.75	\$2.45	\$1.90
3	20	White	Waterclear	0.31/0.32	20	3.2	4300	30	91	300	430	ZD-0142	\$3.95	\$3.50	\$2.75





5mm LEDs



















Optical & Electronic Characteristics									Preferred Values Series Resistor (ohms) for						
Size (mm)	Viewing Angle (Degrees)	Colour	Lens	Wavelength, Chromatic (nm), Co-ordinates	IF Typical (mA)	VF Typical (V)	IV Typical (mcd)	Max Continuous IF Max (mA)	5VDC	9VDC	12VDC	Cat.	Qty 1+	Qty 10+	Qty 25+
5	50	Red	Diffused	700	20	2.3	12	30	130	330	470	ZD-0150	\$0.30	\$0.27	\$0.21
5	15	Red	Waterclear	660	20	1.7	1200	30	160	360	510	ZD-0152	\$0.85	\$0.77	\$0.60
5	15	Red	Waterclear	625	20	2.0	3800	50	150	360	510	ZD-0154	\$1.45	\$1.30	\$0.99
5	15	Red	Waterclear	625	20	2.1	9600	50	150	360	510	ZD-0156	\$3.45	\$3.05	\$2.35
5	15	Red	Waterclear	624*	30	2.1	23500	30	100	240	330	ZD-0293	\$5.45	\$4.90	\$3.75
5	8	Red	Waterclear	616	50	2.1	20000	50	62	150	200	ZD-1790	\$4.45	\$3.95	\$3.05
5	40	Orange	Diffused	635	20	2.0	80	30	150	360	510	ZD-0169	\$0.30	\$0.27	\$0.21
5	50	Yellow	Diffused	585	20	2.1	70	30	150	360	510	ZD-0160	\$0.30	\$0.27	\$0.21
5	15	Yellow	Waterclear	590	20	2.2	2500	20	150	360	510	ZD-0162	\$1.45	\$1.30	\$0.99
5	15	Yellow	Waterclear	588	20	2.0	4000	50	150	360	510	ZD-0164	\$1.65	\$1.45	\$1.15
5	15	Yellow	Waterclear	588	20	2.3	12000	50	130	330	470	ZD-0166	\$4.25	\$3.75	\$2.95
5	15	Yellow	Waterclear	591*	30	2.1	23500	30	100	230	330	ZD-0295	\$5.45	\$4.90	\$3.75
5	50	Green	Diffused	570	20	2.3	80	30	130	330	470	ZD-0170	\$0.30	\$0.27	\$0.21
5	30	Green	Waterclear	525	20	3.5	7500	30	75	270	430	ZD-0172	\$2.35	\$2.09	\$1.60
5	15	Green	Waterclear	515	20	3.5	8500	30	75	270	430	ZD-0174	\$4.25	\$3.75	\$2.95
5	20	Green	Waterclear	525	20	3.2	10000	20	91	300	430	ZD-0176	\$5.45	\$4.90	\$3.75
5	15	Green	Waterclear	527*	30	3.2	64600	30	62	200	300	ZD-0292	\$6.45	\$5.75	\$4.45
5	15	Aqua	Waterclear	505	20	3.5	7000	30	75	270	430	ZD-0178	\$4.45	\$3.95	\$3.05
5	40	Blue	Diffused	470	20	3.3	350	30	82	300	430	ZD-0185	\$2.35	\$2.09	\$1.60
5	15	Blue	Waterclear	468	20	3.2	2500	30	91	300	430	ZD-0180	\$2.75	\$2.45	\$1.90
5	15	Blue	Waterclear	470	20	3.2	6500	30	91	300	430	ZD-0182	\$4.45	\$3.95	\$3.05
5	15	Blue	Waterclear	470*	30	3.2	23500	30	62	200	300	ZD-0291	\$5.45	\$4.90	\$3.75
5	30	White	Waterclear	0.31/0.31	20	3.2	4000	30	91	300	430	ZD-0190	\$2.75	\$2.45	\$1.90
5	20	White	Waterclear	0.31/0.32	20	3.2	7000	30	91	300	430	ZD-0192	\$3.75	\$3.30	\$2.60
5	15	White	Waterclear	0.31/0.32	20	3.3	18000	30	82	300	430	ZD-0195	\$5.50	\$4.90	\$3.75
5	15	White	Waterclear	0.29/0.29*	30	3.2	45000	30	62	200	300	ZD-0290	\$5.75	\$5.15	\$3.95
5	30	UV	Waterclear	405	20	3.3	60	20	91	300	430	ZD-0260	\$5.50	\$4.90	\$3.75










10mm LEDs

Optical & Electronic Characteristics									Preferred Values Series Resistor (ohms) for						
Size (mm)	Viewing Angle (Degrees)	Colour	Lens	Wavelength, Chromatic (nm), Co-ordinates	IF Typical (mA)	VF Typical (V)	IV Typical (mcd)	Max Continuous IF Max (mA)	5VDC	9VDC	12VDC	Cat.	Qty 1+	Qty 10+	Qty 25+
10	16	Red	Diffused	635	20	2.0	8	20	150	360	510	ZD-0200	\$0.75	\$0.68	\$0.53
10	30	Red	Waterclear	625	20	2.0	5600	50	150	360	510	ZD-0201	\$1.45	\$1.30	\$0.99
10	30	Red	Waterclear	625	20	2.0	9600	50	150	360	510	ZD-0202	\$2.75	\$2.45	\$1.90
10	20	Orange	Waterclear	610	20	2.4	10000	50	130	330	470	ZD-0225	\$3.45	\$3.05	\$2.35
10	35	Yellow	Diffused	585	20	2.0	90	30	150	360	510	ZD-0210	\$0.75	\$0.68	\$0.53
10	30	Yellow	Waterclear	588	20	2.0	6000	50	150	350	510	ZD-0211	\$1.45	\$1.30	\$0.99
10	30	Yellow	Waterclear	588	20	2.2	9600	50	150	360	510	ZD-0212	\$2.75	\$2.45	\$1.90
10	50	Green	Diffused	570	20	2.2	100	20	150	360	510	ZD-0205	\$0.75	\$0.68	\$0.53
10	30	Green	Waterclear	525	20	3.1	9000	20	100	300	430	ZD-0206	\$3.95	\$3.50	\$2.75
10	30	Blue	Waterclear	470	20	3.5	1200	30	75	270	430	ZD-0215	\$3.95	\$3.50	\$2.75
10	30	White	Waterclear	0.25/0.26	20	3.2	5000	30	91	300	430	ZD-0220	\$3.95	\$3.50	\$2.75

STANDARD LEDs (CONTINUED)

Optical & Electronic Characteristics									Max Continuous IF Max (mA)	Preferred Values Series Resistor (ohms) for			Cat.	Qty 1+	Qty 10+	Qty 25+
Size (mm)	Viewing Angle (Degrees)	Colour	Lens	Wavelength, Chromatic (nm), Co-ordinates	IF Typical (mA)	VF Typical (V)	IV Typical (mcd)	5VDC		9VDC	12VDC					
5 x 2mm Rectangular LEDs																
5 x 2	155	 Red	Diffused	643	20	2.3	5	20	130	330	470	ZD-0230	\$0.50	\$0.45	\$0.35	
5 x 2	155	 Yellow	Diffused	590	20	1.9	10	20	160	360	510	ZD-0234	\$0.50	\$0.45	\$0.35	
5 x 2	155	 Green	Diffused	573	20	2.3	15	20	130	330	470	ZD-0232	\$0.50	\$0.45	\$0.35	
5mm Superflux																
5 Superflux	90	 White	Waterclear	0.29/0.29 Cree®	35	3.6	3000	35	43	160	240	ZD-0020	\$6.50	\$5.75	\$4.45	

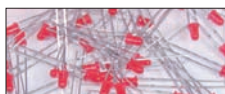
	Size (mm)	Optical & Electronic Characteristics								Continuous IF Max (mA)Max	Preferred Values Series Resistor (ohms) for			Cat.	Qty 1+	Qty 10+	Qty 25+
		Viewing Angle (Degrees)	Colour	Lens	Wavelength (nm)	IF Typical (mA)	VF Typical (V)	IV Typical (mcd)	5VDC		9VDC	12VDC					
Bi LEDs																	
Bi	3	65		Red	Diffused	605	20	2.1	20		150	360	510	ZD-0248	\$1.25	\$1.10	\$0.85
		65		Green	Diffused	570	20	2.3	45	30							
Bi	5	90		Red	Diffused	625	20	2.1	7.6	30	150	360	510	ZD-0250	\$1.25	\$1.10	\$0.85
		90		Green	Diffused	567	20	2.2	10	30							
Bi	10	75		Red	Diffused	625	20	2.0	10	30	150	360	510	ZD-0255	\$1.45	\$1.30	\$0.99
		75		Green	Diffused	570	20	2.1	10	30							
Bi	3	75		Orange	Diffused	625	20	2.0	4.5	30	150	360	510	ZD-0249	\$1.25	\$1.10	\$0.85
		75		Green	Diffused	570	20	2.1	6	30							
Bi	5	90		Orange	Diffused	625	20	2.1	70	30	150	360	510	ZD-0252	\$1.35	\$1.20	\$0.90
		90		Green	Diffused	568	20	2.2	80	30							
Bi	10	75		Red	Diffused	625	20	2.0	10	30	150	360	510	ZD-0256	\$1.75	\$1.55	\$1.20
		75		Green	Diffused	570	20	2.1	10	30							
Tri LEDs																	
Tri	5 common cathode	45		Red	Diffused	625	20	2.0	600	30	150	360	510	ZD-0270	\$7.45	\$6.65	\$5.15
		45		Green	Diffused	520	20	3.5	1000	30	75	270	430				
		45		Blue	Diffused	470	20	3.5	200	30	75	270	430				
Tri	5 Superflux common anode	60		Red	Waterclear	643	20	1.8	200	20	160	360	510	ZD-0010	\$5.75	\$5.15	\$3.95
		60		Green	Waterclear	528	20	3.2	900	20	91	300	470				
		60		Blue	Waterclear	468	20	3.2	150	20	91	300	470				

	Size (mm)	Optical & Electronic Characteristics								Absolute Max VDD Max (V)	Cat.	Qty 1+	Qty 10+	Qty 25+
		Viewing Angle (Degrees)	Colour	Lens	Wavelength (nm)	IF Typical (mA)	VDD Typical (V)	IV Typical (mcd)						
Flashing LEDs														
Flashing	5	50		Red	Diffused	630	20	5.0	50	10	ZD-0240	\$1.45	\$1.30	\$0.99
Flashing	5	30		Red	Diffused	643	20	5.0	60	10	ZD-1785	\$2.35	\$2.09	\$1.60
Flashing	5	45		Yellow	Diffused	597	20	5.0	35	10	ZD-0244	\$1.45	\$1.30	\$0.99
Flashing	5	45		Green	Diffused	568	20	5.0	35	10	ZD-0242	\$1.45	\$1.30	\$0.99
Flashing	5	40		Blue	Diffused	470	20	5.0	900	10	ZD-0245	\$2.35	\$2.09	\$1.60
Flashing	10	50		Red	Diffused	660	20	5.0	50	10	ZD-1965	\$2.85	\$2.53	\$1.95
Tri Colour Sequencing LEDs														
Tri Colour Sequencing	5	30		Red	Waterclear	625	20	4.5	500	4.5	ZD-0247	\$7.75	\$6.90	\$5.25
		30		Green	Waterclear	520	20	4.5	5000	4.5				
		30		Blue	Waterclear	470	20	4.5	2000	4.5				

LED PACKS - STANDARD & SMD

LED Pack - Red

• 5-20mcd @ 20mA typical



▲		Cat.	Qty 1+	Qty 10+	Qty 25+
	3mm Pkt 100	ZD-1692	\$13.95	\$12.35	\$9.75
	5mm Pkt 100	ZD-1690	\$17.95	\$15.95	\$12.35

Assorted LED Pack

Consisting of 20 x 5mm red, 20 x 5mm mixed (green, yellow, orange), 40 x 3mm red, 20 x 3mm mixed (green, yellow, orange). BONUS 10 x 5mm mounting hardware AT NO CHARGE.



▲		Cat.	Qty 1+	Qty 10+	Qty 25+
	Pkt 100	ZD-1694	\$29.95	\$26.90	\$20.70

Range of 3 colours in "Gull Wing" style package.

• Water clear lens.



▲	Pkt	Type	Cat	Qty 1+	Qty 10+	Qty 25+
	Red 10	625nm - 70mcd @20mA	ZD-2000	\$3.50	\$3.15	\$2.45
	Yellow 10	590nm - 40mcd @20mA	ZD-2005	\$3.95	\$3.50	\$2.75
	Green 10	565nm - 100mcd @20mA	ZD-2010	\$3.50	\$3.15	\$2.45

SHOW US YOUR BUILD COMPETITION

Neil, who shops at our Jaycar Warners Bay store built:



Although there are three projects running at the moment the main project (centre) is a Seven segment Digital Clock disciplined by a 1 PPS Rubidium Standard, this should give me an accuracy of less than a couple of seconds per year, if needed I will discipline the rubidium standard with GPS.

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

LED ACCESSORIES

Narrow Angle Lens for Cree® High Power MC-E LED

Focuses the tremendous light output from the Cree® MC-E LED module into a narrow 10° beam. Fits neatly over the MC-E module and extends 16mm in front of the emitter. LED module & lens combined is a mere 20mm in height.

• Dimensions: 34(Dia) x 16(H)mm



▲	Type	Cat.	Qty 1+
10° Narrow Angle	MC-E	HP-1280	\$2.95

LED Clips

- Black.
- 3mm requires a 4mm panel hole, 5mm needs a 6.35mm.
- Simply push clip in panel & insert LED



▲		Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 20	3mm	HP-1100	\$3.50	\$3.15	\$2.45
Pkt 20	5mm	HP-1102	\$3.50	\$3.15	\$2.45
Pkt 100	5mm	HP-1103	\$16.50	\$14.35	\$10.95

10mm LED Bezels

- Black, requires a 14mm panel hole and simply snaps in. LED not included.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 5	HP-1110	\$8.95	\$7.95	\$6.25

Light Transporters - 100mm - Pack of 3

These fibre optic light transporters are simply clipped over the LED and mounted to the panel. With high light conductivity the intensity will not diminish. Much easier to install than LED clips! Hole cut-out size: 3.5mm



▲	Pack	Cat.	Qty 1+	Qty 10+	Qty 25+
Suit SMD LEDs	3	HP-1192	\$12.95	\$11.35	\$8.95
Suit 3mm LEDs	3	HP-1193	\$12.95	\$11.35	\$8.95

LED Mounts

- 3MM - HP-1118
- 5MM - HP-1114
- 3 way
- Single - 45° angle

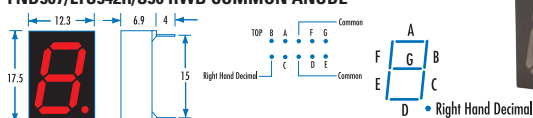


▲	Size	Cat.	Qty 1+	Qty 10+	Qty 25+
Pkt 20	3mm	HP-1118	\$7.95	\$7.10	\$5.50
Pkt 20	5mm	HP-1114	\$5.95	\$5.25	\$4.15
Pkt 100	5mm	HP-1115	\$17.95	\$15.95	\$12.35

7 SEGMENT LED DISPLAYS

Small Displays - Red

FND500 / LTS543R / S505RWB COMMON CATHODE
FND507/LTS542R/S50 RWB COMMON ANODE



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Common Cathode	ZD-1855	\$3.95	\$3.50	\$2.75
Common Anode	ZD-1857	\$3.95	\$3.50	\$2.75

Small Display - Blue

Blue Common Cathode 7-Segment Display - ASD-052C
Display colour Blue



SPECIFICATIONS	
Case dimensions	17.5(H) x 12.4(W)mm
Digit height	13.2mm
Forward voltage (VF)	3.5V
Power dissipation	100mW max
Forward current (If)	35mA max

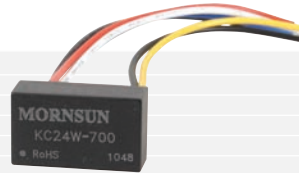
▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1856	\$7.65	\$6.75	\$5.25

Dimmable Constant Current LED Driver Module

A compact, high quality solution from Mornsun for driving high power LEDs which require a constant current power supply. Fully potted with a special coating to reduce electromagnetic interference, this driver is quite versatile in terms of both physical fitment and electrical compatibility. Powered by 5.5-48.0VDC, they can drive up to 10 LEDs in series (input voltage must exceed LED forward voltage though), and can be dimmed either by analogue or PWM signal - meaning that even a simple potentiometer can provide dimming. Suitable for driving our new Cree® XP-G and MC-E models, however will not reach the full 1500mA drive current capacity of the Cree® XP-G.

Full datasheet available on our website.

SPECIFICATIONS AA-0595	
Input voltage	5.5 - 48VDC
Output current	0-700mA
Dimming	Analogue or PWM signal
Efficiency	96%
Dimensions	24(L) x 14(W) x 8(H)mm



▲	Current	Cat.	Qty 1+
	0-700mA	AA-0595	\$10.95

Power Supply for Luxeon® LED Star Modules

This tiny star LED driver module provides a regulated current supply that is perfectly matched to the requirements of our Star LEDs. It will detect how many LEDs are loaded onto the output and automatically provide the correct voltage and regulated current, removing the necessity for any current-limiting resistors. The small size makes them perfect for custom lighting applications. One module can drive up to 3 star LEDs in series.

- Input Voltage: 12-13.5VAC/DC
- Dimensions: 22mm diameter.



▲	Wattage	Cat.	Qty 1+
	1W	AA-0583	\$7.95

LED Tester

With this basic but essential tool it is possible to check the function, brightness, colour and polarity of most kinds of light emitting diodes (LED). The LED to be tested plugs into the front panel, at the current you wish to test it with. Two 10mA positions have been included on this multi-LED tester so that comparisons between two LEDs can be made simultaneously.

- Operating voltage: 9V (battery required)
- Test currents: 1mA, 2.5mA, 5mA, 10mA, 20mA, 50mA
- Dimensions: 58 x 44 x 25mm

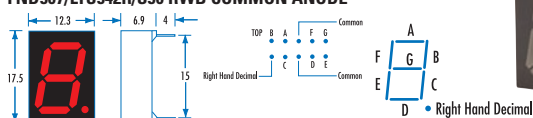


▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0274	\$13.95	\$12.35	\$10.95

7 SEGMENT LED DISPLAYS

Small Displays - Red

FND500 / LTS543R / S505RWB COMMON CATHODE
FND507/LTS542R/S50 RWB COMMON ANODE



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Common Cathode	ZD-1855	\$3.95	\$3.50	\$2.75
Common Anode	ZD-1857	\$3.95	\$3.50	\$2.75

Small Display - Blue

Blue Common Cathode 7-Segment Display - ASD-052C
Display colour Blue



SPECIFICATIONS	
Case dimensions	17.5(H) x 12.4(W)mm
Digit height	13.2mm
Forward voltage (VF)	3.5V
Power dissipation	100mW max
Forward current (If)	35mA max

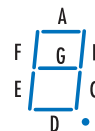
▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1856	\$7.65	\$6.75	\$5.25

Super Large Display - Red

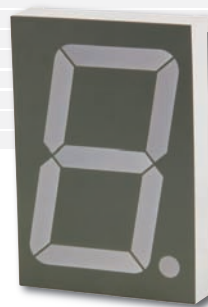
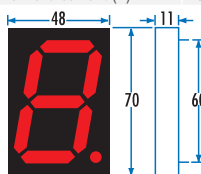
COMMON CATHODE

Actual numbers 2.3" (58mm) high.
Ideal for house numbers, clocks, etc.

- Red 635nm



SPECIFICATIONS ZD-1850	
Digit height	58mm
Case dimensions	70(H) x 48(W)mm
Luminous intensity (IV)	4mcd per segment @ 10mA
Viewing angle	150°
Forward voltage (VF)	Segments 8V, decimal 2V
Face colour	Grey
Max current per segment	30mA
Forward current (If)	10mA



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1850	\$14.95	\$13.35	\$10.35

BAR GRAPHS & DISPLAYS

LED Bar Graph

5mm x 2.5mm rectangular LEDs mounted in a black housing. Ideal for VU meters or where any visual level is required.

- VU 7 Green & 3 Red

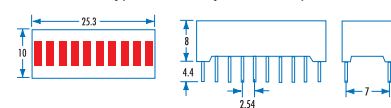


▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1702	\$5.95	\$5.25	\$4.15

DIL LED

Ten individual LED elements housed in a 20 pin package to form a compact linear bar display which may be stacked end to end to create bargraphs of different lengths. Will plug into a standard 20 pin IC socket.

10 red LEDs. Typical intensity is 2.2mcd per LED.

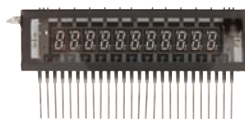


▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1704	\$4.95	\$4.45	\$3.45

11 Digit Fluoro Display

Vacuum fluorescent displays - still look the best. Each digit measures 6.0(H) x 3.5(W) mm, 11 digits in all. The display also features an apostrophe in the top right hand corner of the digits, and a semicolon (;) in the bottom in all 11 digits.

- Futaba brand
- Electrical and mechanical data is included.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1880	\$2.95	\$2.60	\$1.95

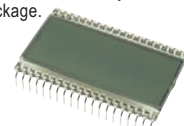
DRIVER IC ALLEGRO BRAND UDN6118A FOR FLUORO DISPLAY ABOVE.

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1882	\$9.95	\$8.75	\$6.75

4 Digit Field Effect LCD

Suitable for meters, gauges, timers, counters and 12/24hr clocks. Extremely easy to drive and no external driver IC required. 40 pin package. Use Cat PI-6470 for socket mounting (2pc required)

- Driving voltage: 3 volts
- Digit height: 12.7mm
- View area: 45 x 17 / Display size: 51 x 30.5mm
- Pin spacing: 2.5mm)



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1886	\$9.95	\$8.75	\$6.75

BEZELS - LOW VOLTAGE

3mm LED Bezels - 2V

Chrome housing.

- 2V, 15 - 30mA
- Panel hole 5mm



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2615	\$3.45	\$3.05	\$2.35
Green	SL-2616	\$3.45	\$3.05	\$2.35
Blue	SL-2617	\$4.50	\$3.95	\$3.15

5mm LED Bezels - 2V

Chrome housing.

- 2V, 15 - 30mA
- Panel hole 8mm



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2610	\$2.35	\$2.09	\$1.60
Green	SL-2612	\$2.35	\$2.09	\$1.60
Blue	SL-2613	\$5.50	\$4.90	\$3.75

Mini Chrome Bezels - 12V

These are very classy and have a bright 3mm LED in the chrome casing which is only 10mm long

- Hole cutout of only 5mm.
- Supplied with flying leads about 100mm long
- Includes dropping resistor.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2644	\$3.95	\$3.50	\$2.75
Green	SL-2645	\$3.95	\$3.50	\$2.75

Chrome Bezel LED - 24V

Classy chrome casing with 3mm LED. Supplied with flying leads with resistor, 5mm hole required.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Green	SL-2646	\$3.95	\$3.50	\$2.75
Red	SL-2647	\$3.95	\$3.50	\$2.75

IP67 Chrome LED Bezels - 12V

IP67 (waterproof) rated LED lamp bezel in a chrome housing. Perfect for applications where protection from dust and water ingress are required.

- 12VDC
- Panel hole: 8mm



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2625	\$7.95	\$6.95	\$5.50
Green	SL-2627	\$7.95	\$6.95	\$5.50

Low Voltage Bezels - 6 & 12V

Accepts Lilliput globes.

- Panel hole 10mm.
- Length 29mm.
- Requires Lilliput globes SL-2650 6V SL-2652 12V



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2620	\$2.25	\$2.00	\$1.80
Green	SL-2622	\$2.25	\$2.00	\$1.80

Lilliput Globes to suit Bezels

- Total length 17mm.
- Width 4.5mm.
- Glass length 8mm.



▲	Current	Cat.	Qty 1+	Qty 10+	Qty 25+
6.3V	200mA	SL-2650	\$0.95	\$0.85	\$0.75
12V	120mA	SL-2652	\$0.95	\$0.85	\$0.75

Bezel Small - 12V

Red, sealed, 12 volt bright bezel for any application.

- Small size.
- Panel hole 7mm.
- Length 34mm.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2640	\$1.95	\$1.75	\$1.55

Bezel Medium - 12V

Red, sealed, ideal for cars as an indicator for driving lights, etc.

- Also suitable for burglar alarms.
- Panel cut out 10mm.
- Rectangular lens 13 x 16mm.
- Length 45mm.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2642	\$1.95	\$1.75	\$1.55

12V Bezel Large - 12V

Perfect for car alarms.

- Orange lens which measures 20 x 20mm.
- Panel hole 15mm.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Orange	SL-2694	\$2.95	\$2.60	\$2.30

LED BEZELS - HIGH VOLTAGE

Chrome Bezels - 240V

Very smart units.

- Length 32mm
- 70mm leads.
- Panel hole 7mm



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2632	\$3.45	\$3.05	\$2.75
Green	SL-2633	\$3.45	\$3.05	\$2.75

Bezel - 240V

Red, spade lug connections.

- Small round flat end
- Total length 45mm
- 10mm diameter
- Cut out hole 9mm.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Red	SL-2630	\$1.95	\$1.75	\$1.55

90V NE2 Neon

Would you believe it? After about 100 years of orange-red neons we now can get blue and green ones!

- Strike voltage: 82V
- Needs 270k resistor in series for 240V operation



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Orange/Red	SL-2690	\$1.25	\$1.10	\$1.00
Blue	SL-2695	\$1.25	\$1.10	\$1.00
Green	SL-2696	\$1.25	\$1.10	\$1.00

OPTOCOUPLEDERS

Non - Zero Crossing

- Excellent stability - IR emitting diode has low degradation
- High isolation voltage - minimum 7500VAC peak
- Underwriters Laboratory (UL) recognised - file# E90700
- Recommended for 240VAC RMS applications
- Vending machines
- Industrial controls
- Triac driver
- Solid state relay
- Motor control
- Traffic lights



▲ Type	Pins	Cat	Qty 1+	Qty 10+	Qty 25+
MOC3020/MOC3021	6	ZD-1920	\$3.85	\$3.45	\$2.75

Phototransistor Optocoupler

- AC line / digital logic isolator
- Digital logic / digital logic isolator
- Telephone / telegraph line receiver
- Twisted pair line receiver
- High frequency power supply feedback control
- Relay contact monitor
- Power supply monitor
- Small package size and low cost
- Excellent frequency response
- UL recognised - file# E90700



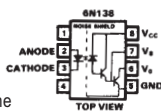
▲ Type	Pins	Cat	Qty 1+	Qty 10+	Qty 25+
4N28/4N25	6	ZD-1928	\$1.95	\$1.75	\$1.35

Darlington Optocoupler

- Low current - 0.5mA
- Superior CTR-2000%
- Superior CMR-10 kV/μs
- Double working voltage 480VRMS
- CTR guaranteed 0-70°C
- UL recognised file# E90700
- Dual channel - HCPL2730, HCPL-2731

Applications

- Digital logic ground isolation
- Telephone ring detector
- EIA-RS232C line receiver
- High common mode noise line receiver
- μP bus location
- Current loop receiver



▲ Type	Pins	Cat	Qty 1+	Qty 10+	Qty 25+
6N138	8	ZD-1940	\$4.95	\$4.45	\$3.45

HALL EFFECT DEVICES

Hall Effect Sensor

UGN3503U HALL EFFECT SENSOR IC

A miniature sensor to accurately track extremely small changes in magnetic flux density - changes generally too small to operate Hall effect switches.

Applications include notch sensor, current monitor, gear tooth sensor, etc.

SPECIFICATIONS	ZD-1902
Operating voltage	4.5 - 6VDC
Supply current	Typ. 9mA
Output voltage	Typ. 2.5V DC
Output resistance	50Ω
Size	4.5(W) x 4.5(H) x 1.5(D)mm



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
UGN3503U	ZD-1902	\$7.75	\$6.90	\$6.15

PRESSURE SENSOR

Pressure Differential Sensor

The ZD-1904 piezo resistive pressure sensor provides a very accurate and linear voltage output directly proportional to the applied pressure. The sensor housed a single monolithic silicon die with a strain gauge and thin film resistor network on each chip.

- 0°C to 85°C temperature compensation
- 0 to 10kPa (0 to 1.45 psi)
- 25mV full scale span



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1904	\$44.95	\$40.45	\$35.90

STORE DETAILS

For store locations and opening hours see the back cover of this catalogue or visit our website.



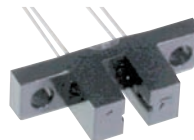
SMD Optocouplers



▲ Type	Case	Pkt	Cat	Qty 1+	Qty 10+	Qty 25+
4N35S	S01C6	10	ZD-1934	\$11.95	\$10.70	\$8.25
TLP113	S01C6	EA	ZD-1941	\$6.95	\$6.25	\$4.75

Photo Interrupter

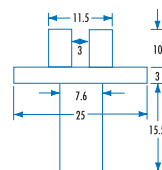
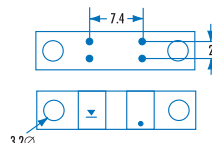
This device enables you to turn a circuit on and off optically. It consists of a moulded plastic housing with an IR LED facing a phototransistor across a gap. Any object in the gap will interrupt the IR beam and consequently switch the phototransistor on and off. The device is very fast and ideal for counting, timing or sensing. Full specs supplied with each unit.



- PCB or chassis mounting
- Low cost
- Rugged one piece construction
- Very fast

Application:

- Counter sensor
- Tachometer
- Opto ignition
- Edge sensor
- Tape end sensor.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1901	\$4.45	\$3.95	\$3.05

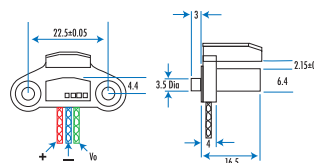
AUTOMATIC ACCOUNT

For Schools, Government Departments, Public Companies, Radio & TV Stations

HKZ-101 Hall Effect Switch

A rugged Hall effect switch designed for automotive ignition applications. This device consists of a Hall effect semiconductor sensor separated across a small gap by a magnet. In its normal state the Hall sensor (with inbuilt output transistor) is conducting. It will sink up to 40mA between the impressive temperature range of -40 to +150°C. When an iron vane is introduced into the gap between the Hall element and the magnet, the output transistor switches off. The sensor is hermetically sealed, resistant to petroleum products and incorporates metal bushing mounting holes to facilitate fitting to a carrier plate, bracket etc.

Lead connections: Red V+, Black earth, Green signal (on/off).



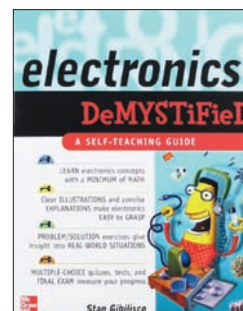
▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1900	\$24.95	\$22.35	\$19.70

Electronics Demystified

Part of the popular Demystified series, this book teaches you electronics theory, it does not include projects. If you have enjoyed the Short Circuits or Fun Way Project books and want to know more, this is your next book. It places all that project experience on a sound technical grounding. It avoids heavy mathematical formulae, but, be warned there are equations in this book. They are not seriously hard though! The book starts at simple DC circuits, goes through AC circuits, impedance, reactance, power supply concepts, semiconductor basics, amplifiers, oscillators, RF, telecommunications and finishes on antennas.

At the end of each chapter is a straightforward quiz (multiple choice) to make sure you are on top of concepts. This is the best-written technical book on novice to moderately advanced electronics we have seen. Read this book and understand it - you are a serious techo.

- Dimensions: 230 x 185mm.



▲	Cat.	Qty 1+
	BM-7106	\$39.95

INFRARED LEDs

Infrared LEDs - Receivers

BP104 PHOTODIODE

Small square device measuring 4(W) x 5.4(L) x 2(D)mm.

SPECIFICATIONS	ZD-1947			
Reverse voltage	20V max	Forward voltage	1.3V@100mA	
Spectral sensitivity	34uA @ 5V	Wavelength of max. sens	950nm	
Spectral range of sensitivity	800 to 1100nm	Half angle	+/- 60°	
Dark current	2nA @ 10V	Open-circuit voltage	330mV	
Short-circuit current	17uA	Rise and fall time	20ns @ 5V	
Capacitance	48pF	Cathode marking	flag on leg	

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1947	\$4.35	\$3.90	\$2.95

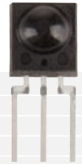


TSOP4136 IR RECEIVER

Consists of PIN diode, pre-amplifier, AGC, pass filter, and demodulator. The main benefits are high speed data rates, short burst transmission codes, and suits cable TV remotes.

SPECIFICATIONS	ZD-1953			
Supply voltage	4.5-5.5V / Max 6V			
Current consumption	1.2mA			
Arrival distance length	20m			
Centre frequency	36kHz			
Directivity characteristics	Horizontal 45°, Vertical 45°			

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1953	\$2.75	\$2.45	\$1.90



5MM PHOTODIODE

Radiant sensitive area (receiving) is on the side of the device. Size 6.7(H) x 4.8(W)mm.

SPECIFICATIONS	ZD-1948			
Reverse voltage	32V			
Spectral range of sensitivity	970nm			
Reverse dark current	5nA			
Turn on/off time (typical)	50ns			
Capacitance	25pF			
Open-circuit voltage	350mV			

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1948	\$1.50	\$1.35	\$1.05



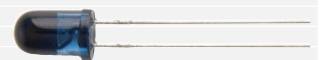
Infrared LEDs - Transmitters

3mm EMITTING DIODE

With a blue transparent lens. Similar specifications as our ZD-1945.

SPECIFICATIONS	ZD-1946			
Forward current (If)	50mA			
Peak forward current (Ip)	100mA			
Forward voltage (VF)	1.3V			
Power dissipation (Pd)	100mW max			

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1946	\$1.50	\$1.35	\$1.05



INFRARED PHOTOTRANSISTOR

5mm LED with a clear transparent lens.

- Collector: Short leg
- Emitter: Long Leg

SPECIFICATIONS	ZD-1950			
NPN collector-to-emitter b'down voltage	30V	Collector dark current	100nA@10V(Vce)	
Emitter-to-collector breakdown voltage	5V	Rise and fall time	3uS @ 5V(Vce)	
Collector-to-emitter saturation voltage	0.8V max	Power dissipation	100mW max	

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1950	\$1.50	\$1.35	\$1.05



5mm EMITTING DIODE

With a blue transparent lens.

SPECIFICATIONS	ZD-1945			
Forward current (If)	50mA max	Peak spectral wavelength (IR)	940nm@20mA	
Peak forward current (Ip)	1.2A	Spectral bandwidth (DI)	50nm@20mA	
Forward voltage (VF)	1.2V @ 20mA	Reverse voltage (VR)	5V max	
Power dissipation (Pd)	100mW max	Viewing angle	30°	
		Material	GaAs	

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1945	\$1.50	\$1.35	\$1.05



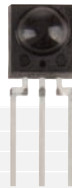
IR LED RECEIVER

Consists of an infrared photo diode and signal processing circuitry, (amplifier, limiter, bandpass filter & demodulator). It will detect the modulated pulse from an IR Remote Control & give a TTL level output.

- Data sheet available - see website.

SPECIFICATIONS	ZD-1952			
Supply voltage	5V typ.	Supply voltage max	5.5V	
Current consumption	0.95mA	Arrival distance Length	12m typ.	
Center frequency	37.9kHz	Directivity characteristics		
Horizontal	45°	Vertical:	35°	

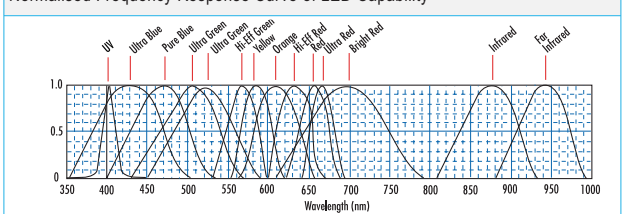
▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZD-1952	\$7.95	\$7.15	\$5.55



FREQUENCY RESPONSE CURVE

TECH TALK

Normalised Frequency Response Curve of LED Capability



LASERS

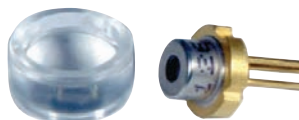
10mW Laser Diode

10mW laser diode component

- Red in colour
- Supplied with 7mm dia collimating lens.

SPECIFICATIONS	ZD-1955			
Threshold current	24mA			
Operating voltage	2.4V	LD reverse voltage	2V PD	
Operating current	40mA	Reverse voltage	30V	
Optical power	10mW	Dimensions	TO-18 (5.6mm dia)	

▲ Size	Cat.	Qty 1+	Qty 10+	Qty 25+
TO-18	ZD-1955	\$7.95	\$7.15	\$5.55



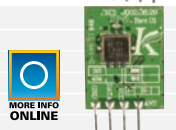
WIRELESS SYSTEMS

433MHz Wireless Modules

Pre-built 433MHz wireless transmitter / receiver modules featuring ASK encoding and are ideal for devices using short data bursts such as remote controls, trigger pulses etc.

SPECIFICATIONS	ZW-3100	ZW-3102		
Output power	3dBm.			
Supply voltage	3VDC	5VDC		
Supply current	10mA max	10mA max		
Data rate	300bps to 10kpbs	300bps to 10kpbs		
PCB (excl pins)	18.5(H) x 14.5(W)mm	42(H) x 11(W)mm		

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Transmitter	ZW-3100	\$13.95	\$12.35	\$10.95
Receiver	ZW-3102	\$13.95	\$12.35	\$10.95



ADDICTED TO SOCIAL? WE'RE HERE TO CHAT - WHATEVER YOUR CHANNEL!



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instagram.com/jaycar_electronics




youtube.com/user/JaycarVideo



twitter.com/jaycarau

RESISTORS

A 1% Metal (1/2W)			
			
10R	RR-0524	3K6	RR-0585
11R	RR-0525	3K9	RR-0586
12R	RR-0526	4K3	RR-0587
13R	RR-0527	4K7	RR-0588
15R	RR-0528	5K1	RR-0589
16R	RR-0529	5K6	RR-0590
18R	RR-0530	6K2	RR-0591
20R	RR-0531	6K8	RR-0592
22R	RR-0532	7K5	RR-0593
24R	RR-0533	8K2	RR-0594
27R	RR-0534	9K1	RR-0595
30R	RR-0535	10K	RR-0596
33R	RR-0536	11K	RR-0597
36R	RR-0537	12K	RR-0598
39R	RR-0538	13K	RR-0599
43R	RR-0539	15K	RR-0600
47R	RR-0540	16K	RR-0601
51R	RR-0541	18K	RR-0602
56R	RR-0542	20K	RR-0603
62R	RR-0543	22K	RR-0604
68R	RR-0544	24K	RR-0605
75R	RR-0545	27K	RR-0606
82R	RR-0546	30K	RR-0607
91R	RR-0547	33K	RR-0608
100R	RR-0548	36K	RR-0609
110R	RR-0549	39K	RR-0610
120R	RR-0550	43K	RR-0611
130R	RR-0551	47K	RR-0612
150R	RR-0552	51K	RR-0613
160R	RR-0553	56K	RR-0614
180R	RR-0554	62K	RR-0615
200R	RR-0555	68K	RR-0616
220R	RR-0556	75K	RR-0617
240R	RR-0557	82K	RR-0618
270R	RR-0558	91K	RR-0619
300R	RR-0559	100K	RR-0620
330R	RR-0560	110K	RR-0621
360R	RR-0561	120K	RR-0622
390R	RR-0562	130K	RR-0623
430R	RR-0563	150K	RR-0624
470R	RR-0564	160K	RR-0625
510R	RR-0565	180K	RR-0626
560R	RR-0566	200K	RR-0627
620R	RR-0567	220K	RR-0628
680R	RR-0568	240K	RR-0629
750R	RR-0569	270K	RR-0630
820R	RR-0570	300K	RR-0631
910R	RR-0571	330K	RR-0632
1K0	RR-0572	360K	RR-0633
1K1	RR-0573	390K	RR-0634
1K2	RR-0574	430K	RR-0635
1K3	RR-0575	470K	RR-0636
1K5	RR-0576	510K	RR-0637
1K6	RR-0577	560K	RR-0638
1K8	RR-0578	620K	RR-0639
2K0	RR-0579	680K	RR-0640
2K2	RR-0580	750K	RR-0641
2K4	RR-0581	820K	RR-0642
2K7	RR-0582	910K	RR-0643
3K0	RR-0583	1M0	RR-0644
3K3	RR-0584	10M	RR-0660

B 5% Carbon (1/4W)	
	
0R0	RR-1500
1R0	RR-1502
1R2	RR-1504
1R5	RR-1506
1R8	RR-1508
2R2	RR-1510
2R7	RR-1512
3R3	RR-1514
3R9	RR-1516
4R7	RR-1518
5R6	RR-1520
6R8	RR-1522
8R2	RR-1524
1M2	RR-1650
1M5	RR-1652
1M8	RR-1654
2M2	RR-1656
2M7	RR-1658
3M3	RR-1660
3M9	RR-1662
4M7	RR-1664
5M6	RR-1666
6M8	RR-1668
8M2	RR-1670
10M	RR-1672

C 5% Carbon (1W)			
			
1R0	RR-2502	2K7	RR-2784
1R2	RR-2504	3K3	RR-2786
1R5	RR-2506	3K9	RR-2788
1R8	RR-2508	4K7	RR-2790
2R2	RR-2510	5K6	RR-2792
2R7	RR-2512	6K8	RR-2794
3R3	RR-2514	8K2	RR-2796
3R9	RR-2516	10K	RR-2798
4R7	RR-2518	12K	RR-2800
5R6	RR-2520	15K	RR-2802
6R8	RR-2522	18K	RR-2804
8R2	RR-2524	22K	RR-2806
10R	RR-2526	27K	RR-2808
12R	RR-2528	33K	RR-2810
15R	RR-2530	39K	RR-2812
18R	RR-2532	47K	RR-2814
22R	RR-2534	56K	RR-2816
27R	RR-2536	68K	RR-2818
33R	RR-2538	82K	RR-2820
39R	RR-2540	100K	RR-2822
47R	RR-2542	120K	RR-2824
56R	RR-2544	150K	RR-2826
68R	RR-2546	180K	RR-2828
82R	RR-2548	220K	RR-2830
100R	RR-2550	270K	RR-2832
120R	RR-2552	330K	RR-2834
150R	RR-2554	390K	RR-2836
180R	RR-2556	470K	RR-2838
220R	RR-2558	560K	RR-2840
270R	RR-2760	680K	RR-2842
330R	RR-2762	820K	RR-2844
390R	RR-2764	1M0	RR-2846
470R	RR-2766	1M2	RR-2848
560R	RR-2768	1M5	RR-2850
680R	RR-2770	2M2	RR-2854
820R	RR-2772	3M3	RR-2858
1K0	RR-2774	3M9	RR-2860
1K2	RR-2776	4M7	RR-2862
1K5	RR-2778	5M6	RR-2864
1K8	RR-2780	8M2	RR-2868
2K2	RR-2782	10M	RR-2870

D 5% Wirewound (5W)			
			
0R1	RR-3206	47R	RR-3266
0R22	RR-3208	56R	RR-3268
0R47	RR-3214	68R	RR-3270
1R0	RR-3220	82R	RR-3272
1R5	RR-3230	100R	RR-3274
1R8	RR-3232	120R	RR-3276
2R2	RR-3234	150R	RR-3278
2R7	RR-3236	180R	RR-3280
3R3	RR-3238	220R	RR-3282
3R9	RR-3240	270R	RR-3284
4R7	RR-3242	330R	RR-3286
5R6	RR-3244	390R	RR-3288
6R8	RR-3246	470R	RR-3290
8R2	RR-3248	560R	RR-3292
10R	RR-3250	680R	RR-3294
12R	RR-3252	820R	RR-3296
15R	RR-3254	1K0	RR-3298
18R	RR-3256	1K5	RR-3302
22R	RR-3258	2K2	RR-3306
27R	RR-3260	3K3	RR-3310
33R	RR-3262	4K7	RR-3312
39R	RR-3264		

E 5% Wirewound (10W)	
	
1R0	RR-3340
2R2	RR-3344
3R3	RR-3346
3R9	RR-3347
4R7	RR-3348
5R6	RR-3349
6R8	RR-3350
8R2	RR-3351
10R	RR-3352
12R	RR-3353
15R	RR-3354
18R	RR-3355
22R	RR-3356
27R	RR-3357
47R	RR-3360
68R	RR-3362
100R	RR-3364
270R	RR-3369
470R	RR-3372
820R	RR-3375

A 0.5W 1% METAL FILM MINI SIZE

Same size as standard 1/4W Carbon Film.

Pkt 8 (one value)	Qty 1+	Qty 25+	Qty 100+
	\$0.55	\$0.39	\$0.33

B 0.25W CARBON FILM

5%, available from 1Ω to 8.2Ω & 1.2MΩ to 10MΩ. Use Mini Metal Film for other values.

Pkt 8 (one value)	Qty 1+	Qty 25+	Qty 100+
	\$0.48	\$0.34	\$0.29

C 1W CARBON FILM 5%

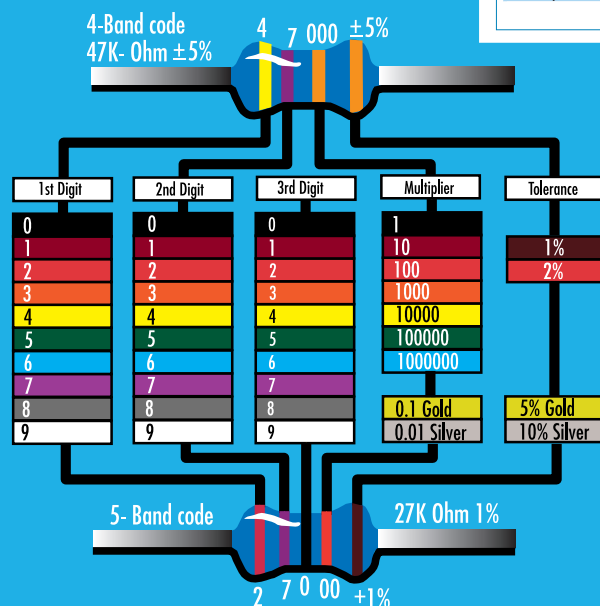
Pkt 2 (one value)	Qty 1+	Qty 25+	Qty 100+
	\$0.48	\$0.34	\$0.29

D 5W WIREWOUND

Each (one value)	Qty 1+	Qty 25+	Qty 100+
	\$0.48	\$0.34	\$0.29

E 10W WIREWOUND

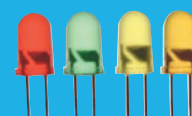
Each (one value)	Qty 1+	Qty 25+	Qty 100+
	\$1.80	\$1.25	\$1.05



BUY A LOT OF RESISTORS?

Check out our economical pack deals on the next page.

SELECTING A RESISTOR TO POWER A LED?



See page 271 for our selection guide.

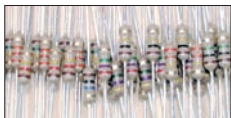
PROTOTYPE RESISTOR PACKS

0.25 Watt Carbon Film Resistors

300 Pieces

This pack includes five of virtually each value from 1 Ω to 10 Meg. Sixty different values. All resistors are banded for easy sorting.

Values supplied are 1 Ω , 1.5, 2.2, 3.3, 4.7, 5.6, 10, 12, 15, 22, 27, 33, 39, 47, 56, 68, 82, 100, 120, 180, 220, 270, 330, 470, 560, 680, 820, 1k, 1k2, 1k5, 1k8, 2k2, 3k3, 3k9, 4k7, 5k6, 8k2, 10k, 12k, 15k, 18k, 22k, 27k, 33k, 39k, 47k, 56k, 68k, 82k, 100k, 120k, 150k, 220k, 270k, 330k, 470k, 1M, 2M7, 4M7 & 10M.



NERD PERKS
2x POINTS

▲ Cat.	Qty 1+	Qty 25+	Qty 100+
RR-1680	\$8.95	\$6.25	\$5.25

Ultimate Resistor Pack

Top quality, guaranteed 1/4 watt 5% miniature sized carbon film. In fact, they look like 1/8W, they are so small. This pack gives you almost every resistor in the E24 range (eg. 1.8K, 2.0K, 2.2K). You get 10 of every value, a total of 170 values, 1700 resistors in all and they are banded for easy sorting. Buy this pack and you should NEVER be short of any resistor again. Massive savings over normal costs.



NERD PERKS
2x POINTS

▲ Cat.	Qty 1+	Qty 25+	Qty 100+
RR-2000	\$32.95	\$24.95	\$19.95

OPEN AIR RESISTORS

Welwyn Open Air Resistor OAR3-R010FI 0R010 3W 1%

A PCB mount current shunt/sense (resistor) up to about 20A. It is a very stable (extremely low temp drift), high tolerance (1%), low inductance (<10nH) shunt resistor that can be used in high current sense applications: motor current sense, regulated power supplies, power amplifier current sense, battery current sense. See website for datasheet. Sold individually



SPECIFICATIONS	RR-3420
Power	3W
Resistance	0.01ohm
Tolerance	+/- 1%
Dimensions	15.2(L) x 25.4(H)mm



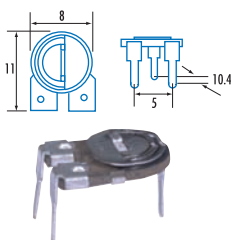
▲ Cat.	Qty 1+	Qty 25+	Qty 100+
RR-3420	\$2.25	\$1.55	\$1.35

TRIMPOTS

Horizontal Mini Trimpots

OPEN CARBON TYPE

Value	Cat.
500 Ω	RT-4304
1k Ω	RT-4306
2k Ω	RT-4308
5k Ω	RT-4310
10k Ω	RT-4312
20k Ω	RT-4314
50k Ω	RT-4316
100k Ω	RT-4318
200k Ω	RT-4320
500k Ω	RT-4324

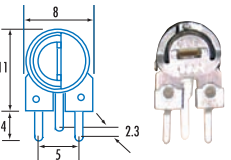


▲ Cat.	Qty 1+	Qty 25+	Qty 100+
All Types / Each	\$0.50	\$0.35	\$0.30

Vertical Trimpots 5mm

OPEN CARBON TYPE

Value	Cat.
200 Ω	RT-4006
500 Ω	RT-4008
1k Ω	RT-4010
5k Ω	RT-4014
10k Ω	RT-4016
20k Ω	RT-4018
50k Ω	RT-4020
100k Ω	RT-4022
250k Ω	RT-4024
500k Ω	RT-4026
1M Ω	RT-4028
2M Ω	RT-4029

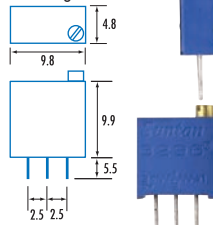


▲ Cat.	Qty 1+	Qty 25+	Qty 100+
All Types / Each	\$0.50	\$0.35	\$0.30

25 Turn Cermet (3296W)

These are 25 turn industrial quality sealed trimpots. Pins are in a row, with 2.5mm spacing. Adjustment is vertical. Power rating is 0.5 watts.

Value	Cat.
100 Ω	RT-4640
500 Ω	RT-4642
1K Ω	RT-4644
2K Ω	RT-4646
5K Ω	RT-4648
10K Ω	RT-4650
20K Ω	RT-4652
50K Ω	RT-4654
100K Ω	RT-4656
1M Ω	RT-4658



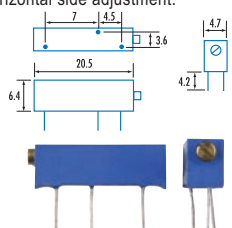
▲ Cat.	Qty 1+	Qty 25+	Qty 100+
All Types / Each	\$2.95	\$2.00	\$1.75

Multiturn Cermet (3006P)

0.75 watts @ 70%. Horizontal side adjustment.

• 15-20 turns.

Value	Cat.
100 Ω	RT-4602
500 Ω	RT-4604
1k Ω	RT-4608
2k Ω	RT-4610
5k Ω	RT-4612
10k Ω	RT-4614
20k Ω	RT-4616
50k Ω	RT-4618
100k Ω	RT-4620
1M Ω	RT-4622



Major brands stocked

▲ Cat.	Qty 1+	Qty 25+	Qty 100+
All Types / Each	\$1.95	\$1.35	\$1.15

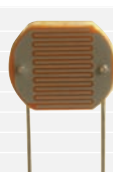
LIGHT DEPENDENT RESISTORS

Light Dependent Resistor (LDR)

Cadmium sulphide (CdS) light dependent resistor cell.

SPECIFICATIONS RD-3485

Dark resistance	0.5M Ω min.
Light resistance	2.8k Ω min/8.4k Ω max.
Max dissipation	100mW
Rise time	(0-63%) 50mS
Decay time	(100 - 37%) 40mS
Dimensions	8.5mm x 10.14mm
Lead spacing	7.68mm.



▲ Cat.	Qty 1+	Qty 25+	Qty 100+
RD-3485	\$3.25	\$2.25	\$1.90

Light Dependent Resistor (LDR)

Cadmium Sulphide (CdS) light dependent resistor cell. Similar to Philips ORP12

SPECIFICATIONS RD-3480

Dark resistance	min10M Ω
Light resistance	48k - 140k Ω
Max dissipation	30mW
Rise time	(0-63%) 40mS
Decay time	(100-37%) 10mS
Dimensions	5.1mm x 4.3mm \pm 0.2
Lead spacing	3.4mm



▲ Cat.	Qty 1+	Qty 25+	Qty 100+
RD-3480	\$3.25	\$2.25	\$1.90

Resistor Substitution Wheel

Select from 36 values ranging from 5 ohms to 1 megaohms.

- Great for creating circuits for selecting the best resistances for the task
- Assists with some of the calculations associated with resistance usage
- Complete with leads & insulated alligator clips.
- Uses 0.25W resistors with 5% tolerance



▲ Cat.	Qty 1+	Qty 25+	Qty 100+
RR-0700	\$39.95	\$27.95	\$23.95

For Trimmer Capacitors see page 281.

POTENTIOMETERS

9mm Square PCB Mounting

These pots are rapidly becoming the industry standard for miniaturised audio, digital and telecommunications equipment. This series features good solder bath immersion resistance, 300° rotation and standard 18 tooth metric pre-cut actuator shafts. Two popular metric knobs are now carried, however metric knobs are now commonly available. Both single and dual gang types are stocked in log and linear resistance tapers.

Electrical	Linear Taper (B)	Other Taper	Mechanical	
Rated Wattage	0.05W	0.02W	Rotation Angle	300° +/-5°
Rated Voltage	50VAC	50VAC	Rotation Torque	20-250gf.cm
Slider Noise	<100mV		Stop Strength:	5kgf.cm/min.
Insulation Resistance	>100MΩ at 250VDC			
Dielectric	300VAC/Minute			
Tracking Error	Within 3dB at 40-0dB			

LOG SINGLE GANG (A)

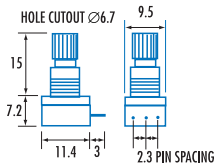
Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP-8610	\$3.50	\$2.75	\$2.45
50kΩ	RP-8616	\$3.50	\$2.75	\$2.45

LINEAR SINGLE GANG (B)

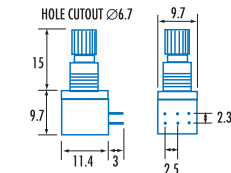
Value	Cat.	Qty 1+	Qty 10+	Qty 50+
1kΩ	RP-8504	\$3.50	\$2.75	\$2.45
10kΩ	RP-8510	\$3.50	\$2.75	\$2.45
50kΩ	RP-8516	\$3.50	\$2.75	\$2.45
100kΩ	RP-8518	\$3.50	\$2.75	\$2.45
1MΩ	RP-8524	\$3.50	\$2.75	\$2.45



Single Gang



Double Gang



16mm PCB Mounting

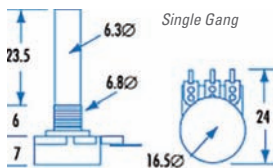
- These pots have imperial standard shaft.
- Shaft is 1/4" D type (30% of shaft has been removed for flat), so they suit all our knob range.
- Shaft length is 30mm.
- Power rating Linear 0.125W and Log 0.06W.
- Max operating voltage: 150VAC
- Supplied with nut and washer

LOG SINGLE GANG (A)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
1kΩ	RP-7604	\$2.50	\$2.05	\$1.75
10kΩ	RP-7610	\$2.50	\$2.05	\$1.75
50kΩ	RP-7616	\$2.50	\$2.05	\$1.75

LINEAR SINGLE GANG (B)

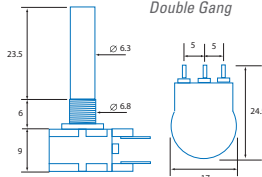
Value	Cat.	Qty 1+	Qty 10+	Qty 50+
1kΩ	RP-7504	\$2.50	\$2.05	\$1.75
5kΩ	RP-7508	\$2.50	\$2.05	\$1.75
10kΩ	RP-7510	\$2.50	\$2.05	\$1.75
50kΩ	RP-7516	\$2.50	\$2.05	\$1.75
100kΩ	RP-7518	\$2.50	\$2.05	\$1.75
1MΩ	RP-7524	\$2.50	\$2.05	\$1.75



Single Gang



Double Gang



LOG DOUBLE GANG (A)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP-7756	\$3.50	\$2.75	\$2.45

LINEAR DOUBLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
50kΩ	RP-7708	\$3.50	\$2.75	\$2.45
100kΩ	RP-7712	\$3.50	\$2.75	\$2.45

24mm PCB Mounting

With imperial standard shaft & bushings made to our rigid engineering specifications. The potentiometers are full size - 24mm diameter types. They have genuine 6.35mm (1/4") shafts with a flat machined 25% of the diameter for grub screws or interference fit knob mounting. The shaft is a generous 38mm long. The bush is a 3/8" 32 T.H.D. type which we believe is necessary for good fixing to a panel. Another important feature of the pots is their PCB mount capability. The pins are rigidly mounted on phenolic with the centre pin offset from the two outer terminals. When soldered into a PCB, the pot is quite rigidly held on its own. Double gang pots are held in 6 places and require no extra mechanical mounting assistance. The pins are large enough to terminate screened cable, etc., if the job requires hard wiring.

- We have stocked this product for over 10 years now and have no intention of changing it. You can therefore confidently design around this product.
- Supplied with nut and washer
- Power rating Log 0.25W and Linear 0.5W

LOG SINGLE GANG (A)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
1kΩ	RP-3604	\$2.95	\$2.40	\$2.00
5kΩ	RP-3608	\$2.95	\$2.40	\$2.00
10kΩ	RP-3610	\$2.95	\$2.40	\$2.00
25kΩ	RP-3614	\$2.95	\$2.40	\$2.00
50kΩ	RP-3616	\$2.95	\$2.40	\$2.00
100kΩ	RP-3618	\$2.95	\$2.40	\$2.00
250kΩ	RP-3620	\$2.95	\$2.40	\$2.00
500kΩ	RP-3622	\$2.95	\$2.40	\$2.00
1MΩ	RP-3624	\$2.95	\$2.40	\$2.00

LINEAR SINGLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
500Ω	RP-3502	\$2.95	\$2.40	\$2.00
1kΩ	RP-3504	\$2.95	\$2.40	\$2.00
5kΩ	RP-3508	\$2.95	\$2.40	\$2.00
10kΩ	RP-3510	\$2.95	\$2.40	\$2.00
25kΩ	RP-3514	\$2.95	\$2.40	\$2.00
50kΩ	RP-3516	\$2.95	\$2.40	\$2.00
100kΩ	RP-3518	\$2.95	\$2.40	\$2.00
250kΩ	RP-3520	\$2.95	\$2.40	\$2.00
500kΩ	RP-3522	\$2.95	\$2.40	\$2.00
1MΩ	RP-3524	\$2.95	\$2.40	\$2.00

LOG DOUBLE GANG (A)

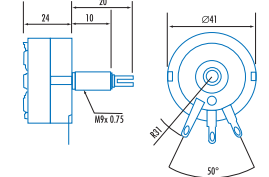
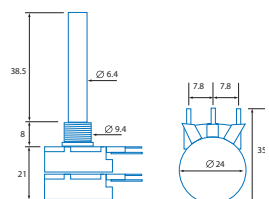
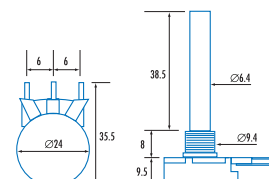
Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP-3756	\$4.50	\$3.60	\$3.15
50kΩ	RP-3760	\$4.50	\$3.60	\$3.15
100kΩ	RP-3762	\$4.50	\$3.60	\$3.15

LINEAR DOUBLE GANG (B)

Value	Cat.	Qty 1+	Qty 10+	Qty 50+
10kΩ	RP-3706	\$4.50	\$3.60	\$3.15
25kΩ	RP-3708	\$4.50	\$3.60	\$3.15
50kΩ	RP-3710	\$4.50	\$3.60	\$3.15
100kΩ	RP-3712	\$4.50	\$3.60	\$3.15

5 Ohm 15W Wirewound

SPECIFICATIONS	RP-3975
Resistance	5 Ohms
Resistance curve	Linear (B)
Rated wattage	15 Watts
Shaft	Spline (metric)
Body measures	41mm OD x 24mm Depth
Shaft Length	20mm; 9.0mm hole required
Lugs	Solder Type
Total rotation angle	300° +/-5°
Rotation Torque	70-400gf.cm
Stopper Strength	10kgf.cm



	Cat.	Qty 1+	Qty 10+	Qty 50+
▲	RP-3975	\$13.95	\$10.95	\$9.75

Potentiometer Nuts

Packet of 12 nuts and washers to suit our pots.



▲	Thread	Cat	Qty 1+	Qty 10+	Qty 50+
24mm	3/8" 32THD	RP-3500	\$3.50	\$2.75	\$2.45
16mm	Metric	RP-7500	\$3.50	\$2.75	\$2.45

PLASTIC KNOBS



FLUTED PLASTIC WITH POINTER SLOT & SKIRT
Grubscrew fixing - brass insert. Suit 0.25"/6.35mm shaft.

Lifetime warranty on all knobs!

▲ Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	16 x 14	HK-7760	\$1.65	\$1.45	\$1.30
Black	20 x 16	HK-7762	\$2.15	\$1.90	\$1.70
Black	24 x 20	HK-7764	\$2.50	\$2.20	\$2.05
Black	35 x 19	HK-7766	\$3.45	\$3.05	\$2.75

PUSH ON - COLOURED CAP
Suit 0.25"/6.35mm shaft.

▲ Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Red	18 x 20	HK-7705	\$0.95	\$0.85	\$0.75
Yellow	18 x 20	HK-7713	\$0.95	\$0.85	\$0.75
Black	18 x 20	HK-7707	\$0.95	\$0.85	\$0.75
White	18 x 20	HK-7715	\$0.95	\$0.85	\$0.75
Blue	18 x 20	HK-7709	\$0.95	\$0.85	\$0.75
Grey	18 x 20	HK-7717	\$0.95	\$0.85	\$0.75
Green	18 x 20	HK-7711	\$0.95	\$0.85	\$0.75

BLACK PLASTIC WITH POINTER
Brass ferrule insert. Suit 0.25"/6.35mm shaft.

▲ Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	23 x 14	HK-7787	\$1.85	\$1.65	\$1.45

CAUTION WHEN ORDERING!

When ordering knobs (from any supplier) double check that the knob you are getting will fit the shaft of the component you are using it with. For example a knob with a 6mm shaft hole will not accept a 1/4" shaft. As you are probably aware 1/4" equals 6.35mm. That 0.35mm is enough to render the knob unusable.

ALUMINIUM / PLASTIC INSERT KNOBS



BRUSHED ALUMINIUM
Ideal for HiFi projects. Suit 0.25"/6.35mm shaft.

▲ Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Silver	16 x 14	HK-7020	\$3.45	\$3.05	\$2.75
Silver	22 x 14	HK-7022	\$3.65	\$3.25	\$2.90

BLACK ANODISED ALUMINIUM
Grub screw fixing. Suit 0.25"/6.35mm shaft.

▲ Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	16 x 14	HK-7009	\$3.45	\$3.05	\$2.75
Black	22 x 14	HK-7010	\$3.65	\$3.25	\$2.90
Black	29 x 14	HK-7011	\$4.95	\$4.45	\$3.90



METRIC
Suits our 9mm Mini Potentiometers. Matches HK-7760/66 series.
Fits all standard metric shafts, including RP-8504 series, RP-8610 series & RP-8706 series on page 279.

▲ Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	15 x 14	HK-7770	\$1.75	\$1.55	\$1.40
Black	20 x 16	HK-7772	\$2.15	\$1.90	\$1.70

SKIRT NUMBERED 1-10
Grubscrew fixing - brass ferrule insert. Suit 0.25"/6.35mm shaft.

▲ Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Silver/Black	29 x 18	HK-7788	\$3.45	\$3.05	\$2.75
Silver/Black	36 x 23.5	HK-7549	\$3.45	\$3.05	\$2.75

PUSH ON - 18T SPLINE
Suits our 9mm Mini Potentiometers. Matches HK-7760/66 series.
Fits all standard metric shafts.

▲ Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Grey/Red	13 x 18	HK-7730	\$1.15	\$1.00	\$0.90
Grey/Yellow	13 x 18	HK-7731	\$1.15	\$1.00	\$0.90
Grey/Green	13 x 18	HK-7732	\$1.15	\$1.00	\$0.90
Grey/Blue	13 x 18	HK-7733	\$1.15	\$1.00	\$0.90
Grey/White	13 x 18	HK-7734	\$1.15	\$1.00	\$0.90

PLASTIC POINTER
Suit 0.25"/6.35mm shaft.

▲ Colour	Ø x H (mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	19 x 32	HK-7700	\$1.65	\$1.45	\$1.30

TECH TALK

So called "metric" knobs often have an 18 spline interference fit hole suitable only for push-on type aluminium shafts.
Note: Apart from metric, all knobs shown on this page fit to 0.25"/6.35mm shafts (with flat) unless otherwise stated.

DISCOUNT TRADE CARD



If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to

substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type and quantity of product purchased. Excludes Kits & Books.

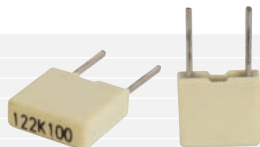
*ABN will be required - see our website or Store Manager for further details.

CAPACITORS

100VDC MKT Miniature Polyester

- Rated voltage: 100VDC working, 40VAC 50/60Hz

Capacitance	Width	Depth	Height (mm)
0.001 - 0.08µF	7.5	2.5	6.5
0.10 - 0.22µF	7.5	3.2	8
0.27 - 0.56µF	7.5	5	8
0.68µF	7.5	6	9.6
1.5µF	26	7	16



Value (µF)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.0010	1.0	5	RM-7010	\$0.35	\$0.24	\$0.21
0.0012	1.2	5	RM-7012	\$0.35	\$0.24	\$0.21
0.0015	1.5	5	RM-7015	\$0.35	\$0.24	\$0.21
0.0022	2.2	5	RM-7022	\$0.35	\$0.24	\$0.21
0.0027	2.7	5	RM-7027	\$0.35	\$0.24	\$0.21
0.0033	3.3	5	RM-7033	\$0.35	\$0.24	\$0.21
0.0039	3.9	5	RM-7039	\$0.35	\$0.24	\$0.21
0.0047	4.7	5	RM-7047	\$0.35	\$0.24	\$0.21
0.0068	6.8	5	RM-7055	\$0.35	\$0.24	\$0.21
0.010	10	5	RM-7065	\$0.35	\$0.24	\$0.21
0.012	12	5	RM-7070	\$0.35	\$0.24	\$0.21
0.015	15	5	RM-7075	\$0.35	\$0.24	\$0.21
0.018	18	5	RM-7080	\$0.35	\$0.24	\$0.21
0.022	22	5	RM-7085	\$0.35	\$0.24	\$0.21
0.033	33	5	RM-7095	\$0.35	\$0.24	\$0.21
0.039	39	5	RM-7100	\$0.35	\$0.24	\$0.21
0.047	47	5	RM-7105	\$0.35	\$0.24	\$0.21
0.056	56	5	RM-7110	\$0.35	\$0.24	\$0.21
0.068	68	5	RM-7115	\$0.35	\$0.24	\$0.21
0.082	82	5	RM-7120	\$0.40	\$0.27	\$0.24
0.10	100	5	RM-7125	\$0.40	\$0.27	\$0.24
0.12	120	5	RM-7130	\$0.40	\$0.27	\$0.24
0.15	150	5	RM-7135	\$0.45	\$0.30	\$0.25
0.18	180	5	RM-7140	\$0.45	\$0.30	\$0.25
0.22	220	5	RM-7145	\$0.45	\$0.30	\$0.25
0.27	270	5	RM-7150	\$0.65	\$0.45	\$0.37
0.33	330	5	RM-7153	\$0.65	\$0.45	\$0.37
0.39	390	5	RM-7159	\$0.65	\$0.45	\$0.37
0.47	470	5	RM-7165	\$0.65	\$0.45	\$0.37
0.56	560	5	RM-7166	\$0.85	\$0.57	\$0.50
0.68	680	5	RM-7168	\$0.85	\$0.57	\$0.50
1.00	1000	5	RM-7170	\$0.95	\$0.65	\$0.55
1.50	1500	23	RM-7172	\$1.25	\$0.85	\$0.75

250VDC Metallised Polypropylene

- Ideal for speaker crossovers
- Axial

Metallised polypropylene dielectric offers stable capacitance over a wide temperature range. This, and the relatively high capacitance for size makes them ideal for high quality loudspeaker crossover networks. Naturally, they are also suitable for other applications where a stable, non polarised capacitive component is required.



High Quality

Value(µF)	W x D x H (mm)	Cat.	Qty 1+	Qty 5+	Qty 10+
1.0	25 x 15.9 x 8.4	RY-6950	\$3.95	\$2.75	\$2.30
1.5	29 x 17.2 x 9.6	RY-6951	\$4.95	\$3.95	\$3.45
2.2	32 x 19.2 x 10.1	RY-6952	\$5.65	\$4.60	\$4.15
3.3	32 x 22.2 x 13.0	RY-6953	\$7.95	\$6.25	\$5.50
4.7	32 x 22.0 x 15.0	RY-6954	\$12.50	\$8.75	\$7.75
5.6	46 x 20.0 x 12.0	RY-6955	\$13.50	\$9.75	\$8.75
6.8	46 x 22.2 x 14.3	RY-6956	\$14.50	\$11.35	\$10.35
8.2	46 x 23.0 x 16.0	RY-6957	\$17.95	\$13.35	\$11.70
10.	56 x 29.0 x 20.7	RY-6958	\$18.95	\$14.95	\$13.35

250VAC - Metallised Polypropylene - X2 Style



Voltage rating: 275/250VAC
Capacitance tolerance: +/-10% std +/-5%
Operating temperature: -40°C to 85°C

Value(µF)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.010	10	10	RG-5230	\$0.95	\$0.65	\$0.55
0.022	22	10	RG-5232	\$0.95	\$0.65	\$0.55
0.047	47	15	RG-5234	\$0.95	\$0.65	\$0.55
0.10	100	15	RG-5236	\$1.25	\$0.85	\$0.75
0.22	220	22.5	RG-5238	\$1.35	\$0.90	\$0.80
0.47	470	22.5	RG-5240	\$3.75	\$2.60	\$2.20
1.0	1000	27.5	RG-5248	\$4.25	\$2.90	\$2.45

Greencaps Polyester or Mylar

- Supplied loose
- Operating temperature: -40°C to +85°C



100VDC

Value(µF)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.0010	1.0	4	RG-5010	\$0.30	\$0.21	\$0.18
0.0012	1.2	4	RG-5012	\$0.30	\$0.21	\$0.18
0.0015	1.5	4	RG-5015	\$0.30	\$0.21	\$0.18
0.0018	1.8	4	RG-5018	\$0.30	\$0.21	\$0.18
0.0022	2.2	4	RG-5022	\$0.30	\$0.21	\$0.18
0.0027	2.7	4	RG-5027	\$0.30	\$0.21	\$0.18
0.0033	3.3	4	RG-5033	\$0.30	\$0.21	\$0.18
0.0039	3.9	4	RG-5039	\$0.30	\$0.21	\$0.18
0.0047	4.7	4	RG-5047	\$0.30	\$0.21	\$0.18
0.0056	5.6	4	RG-5050	\$0.30	\$0.21	\$0.18
0.0068	6.8	4	RG-5055	\$0.30	\$0.21	\$0.18
0.0082	8.2	4	RG-5060	\$0.30	\$0.21	\$0.18
0.010	10	4	RG-5065	\$0.30	\$0.21	\$0.18
0.012	12	4	RG-5070	\$0.30	\$0.21	\$0.18
0.015	15	5	RG-5075	\$0.30	\$0.21	\$0.18
0.018	18	5	RG-5080	\$0.30	\$0.21	\$0.18
0.022	22	5	RG-5085	\$0.30	\$0.21	\$0.18
0.027	27	5	RG-5090	\$0.30	\$0.21	\$0.18
0.033	33	5	RG-5095	\$0.30	\$0.21	\$0.18
0.039	39	5	RG-5100	\$0.30	\$0.21	\$0.18
0.047	47	5	RG-5105	\$0.30	\$0.21	\$0.18
0.056	56	6	RG-5110	\$0.30	\$0.21	\$0.18
0.068	68	6.5	RG-5115	\$0.30	\$0.21	\$0.18
0.082	82	6.5	RG-5120	\$0.30	\$0.21	\$0.18
0.10	100	7	RG-5125	\$0.30	\$0.21	\$0.18
0.12	120	7	RG-5130	\$0.30	\$0.21	\$0.18
0.15	150	7.5	RG-5135	\$0.30	\$0.21	\$0.18
0.18	180	7.5	RG-5140	\$0.30	\$0.21	\$0.18
0.22	220	7.5	RG-5145	\$0.30	\$0.21	\$0.18
0.27	270	7.5	RG-5150	\$0.42	\$0.29	\$0.25
0.33	330	8	RG-5153	\$0.42	\$0.29	\$0.25

100VDC LARGE VALUES Suitable for speaker crossovers, etc.

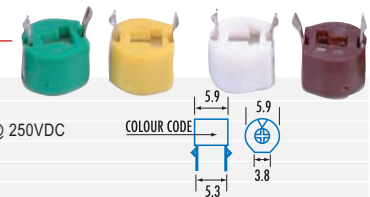
Value(µF)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.47	470	11	RG-5165	\$0.40	\$0.28	\$0.24
0.56	560	15	RG-5166	\$0.60	\$0.42	\$0.36
0.68	680	11	RG-5168	\$1.75	\$1.20	\$1.05
0.82	820	15	RG-5169	\$1.75	\$1.20	\$1.05
1.00	1000	11	RG-5170	\$2.25	\$1.55	\$1.35
1.50	1500	20	RG-5172	\$3.45	\$2.35	\$2.00
2.20	2200	11	RG-5175	\$3.45	\$2.35	\$2.00
3.30	3300	21	RG-5180	\$3.45	\$2.35	\$2.00

630VDC

Value(µF)	(nF)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.010	10	9	RG-5201	\$0.60	\$0.42	\$0.36
0.022	22	9	RG-5202	\$0.80	\$0.56	\$0.48
0.033	33	14	RG-5203	\$0.95	\$0.65	\$0.55
0.047	47	10	RG-5204	\$0.95	\$0.65	\$0.55
0.047	47	14	RG-5205	\$0.95	\$0.65	\$0.55
0.10	100	14	RG-5210	\$1.40	\$0.95	\$0.80
0.22	220	14	RG-5222	\$1.40	\$0.95	\$0.80
0.47	470	26	RG-5247	\$1.95	\$1.35	\$1.15

TRIMMERS

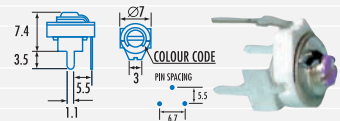
SPECIFICATIONS ALL
Working Voltage 50V DC
Insulation Resistance >104MΩ min @ 250VDC
Operating Temp -30°C to +85
Withstand Voltage 110VDC
Turning Torque 20 to 200gr/cm



Capacitance(pF)	Temp Coeff	Colour	Cat.	Qty 1+	Qty 25+	Qty 100+
3-10	N470	White	RV-5714	\$1.85	\$1.65	\$1.25
6.2-30	N750	Green	RV-5716	\$1.85	\$1.65	\$1.25
6.8-40	N1200	Yellow	RV-5718	\$1.85	\$1.65	\$1.25
9.8-50	N1200	Brown	RV-5720	\$1.85	\$1.65	\$1.25

8.5-100pF Ceramic Trimmer

SPECIFICATIONS RV-5722
Working voltage 225VDC.
Insulation resistance >104MΩ min at 250VDC.
Withstand voltage 500VDC.
Temperature coefficient N2200.
Colour Purple

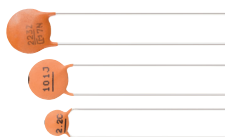


Capacitance(pF)	Voltage	Cat.	Qty 1+	Qty 25+	Qty 100+
8.5-100	225VDC	RV-5722	\$2.95	\$2.00	\$1.75

CAPACITORS (CONTINUED)

50V Ceramic

1pF - 10pF \pm 1/4pF
 12pF - 100pF \pm 5%
 120pF - 0.022 μ F \pm 10% (Y5P)
 0.033 μ F - 0.1 μ F \pm 20% (Y5U)
 • 5mm lead spacing • Low inductance



Value (pF)	Cat. (Pkt 2)	Value (pF)	Cat. (Pkt 2)
1.0	RC-5300	120	RC-5325
1.2	RC-5301	150	RC-5326
1.5	RC-5302	180	RC-5327
1.8	RC-5303	220	RC-5328
2.2	RC-5304	270	RC-5329
2.7	RC-5305	330	RC-5330
3.3	RC-5306	390	RC-5331
3.9	RC-5307	470	RC-5332
4.7	RC-5308	560	RC-5333
5.6	RC-5309	680	RC-5334
6.8	RC-5310	820	RC-5335
8.2	RC-5311	1000	RC-5336
10	RC-5312	2200	RC-5340
12	RC-5313	3300	RC-5342
15	RC-5314	4700	RC-5344
18	RC-5315	5600	RC-5345
22	RC-5316	6800	RC-5346
27	RC-5317	8200	RC-5347
33	RC-5318	0.01 μ F	RC-5348
39	RC-5319	0.022 μ F	RC-5352
47	RC-5320	0.033 μ F	RC-5354
56	RC-5321	0.047 μ F	RC-5356
68	RC-5322	0.1 μ F	RC-5360
82	RC-5323		
100	RC-5324		

Pkt 2	Qty 1+	Qty 25+	Qty 100+
All RC Cat Nos (Pkt 2)	\$0.32	\$0.22	\$0.19

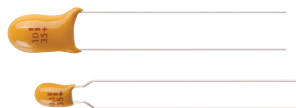
0.22 μ F 220N Lead spacing 5mm

▲ (Each)	Cat.	Qty 1+	Qty 25+	Qty 100+
	RC-5364	\$0.68	\$0.48	\$0.41

CAPACITORS - TAG TANTALUM

Tag Tantalum Thru-Hole

- Resin dipped case
- Price per each
- 5mm lead spacing



16V

Value(μ F)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
4.7	5.0	RZ-6636	\$0.75	\$0.53	\$0.45
6.8	5.0	RZ-6642	\$1.15	\$0.80	\$0.65
10	5.0	RZ-6648	\$1.15	\$0.80	\$0.65
15	5.0	RZ-6657	\$1.15	\$0.80	\$0.65
22	5.0	RZ-6658	\$1.15	\$0.80	\$0.65
33	5.0	RZ-6665	\$2.65	\$1.85	\$1.55
47	5.0	RZ-6670	\$2.65	\$1.85	\$1.55

PROTOTYPE PACKS - CAPACITORS

- Ideal for prototyping

CERAMIC
RC-5399100V GREENPACK
RG-5199MKT
RM-7190ELECTROLYTIC
RE-6250

Value	Pack	Cat.	Qty 1+	Qty 25+	Qty 100+
10pF - 100nF	60	RC-5399	\$9.95	\$6.75	\$5.75
0.001 μ F - 0.22 μ F	60	RG-5199	\$11.95	\$8.25	\$6.95
0.001 μ F - 0.47 μ F	50	RM-7190	\$16.95	\$11.85	\$10.15
1 μ F - 470 μ F	55	RE-6250	\$13.50	\$8.95	\$7.75

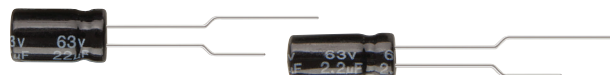
50VDC Monolithic

Lead spacing 5mm, low impedance



▲ Value (μ F)	Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
0.01	each	RC-5480	\$0.35	\$0.25	\$0.21
0.022	each	RC-5482	\$0.35	\$0.25	\$0.21
0.047	each	RC-5486	\$0.35	\$0.25	\$0.21
0.10	each	RC-5490	\$0.35	\$0.25	\$0.21
0.10	100	RC-5496	\$9.95	\$6.75	\$5.75
0.22	each	RC-5494	\$0.38	\$0.27	\$0.23
0.47	each	RC-5498	\$0.75	\$0.53	\$0.45
1.0	each	RC-5499	\$0.75	\$0.53	\$0.45

50VDC Bi-Polar RB Electrolytic - 85°C



Value (μ F)	Size (mm)	Pitch (mm)	Ripple (mA)	Cat.	Qty 1+	Qty 25+	Qty 100+
1.0	5 x 11	2.0	8	RY-6802	\$0.55	\$0.39	\$0.33
2.2	5 x 11	2.0	20	RY-6804	\$0.55	\$0.39	\$0.33
3.3	5 x 11	2.0	25	RY-6805	\$0.55	\$0.39	\$0.33
4.7	5 x 11	2.0	30	RY-6806	\$0.55	\$0.39	\$0.33
6.8	5 x 11	2.0	40	RY-6808	\$0.55	\$0.39	\$0.33
10	6.3 x 11	2.5	48	RY-6810	\$0.55	\$0.39	\$0.33
22	8 x 11	3.5	82	RY-6816	\$0.95	\$0.65	\$0.55
33	8 x 11	3.5	98	RY-6818	\$1.15	\$0.80	\$0.65
47	8 x 11	3.5	140	RY-6820	\$1.65	\$1.15	\$0.95
100	10 x 20	5.0	245	RY-6825	\$2.95	\$2.00	\$1.75

3kV High Voltage Ceramic

Value 0.01 μ F.

▲ Value(μ F)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.01	RC-5380	\$2.95	\$2.00	\$1.75

25V

Value(μ F)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
1.0	5.0	RZ-6627	\$0.75	\$0.53	\$0.45
10	5.0	RZ-6650	\$1.15	\$0.80	\$0.65

35V

Value(μ F)	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.10	5.0	RZ-6620	\$0.75	\$0.53	\$0.45
0.22	5.0	RZ-6622	\$0.75	\$0.53	\$0.45
0.33	5.0	RZ-6624	\$0.75	\$0.53	\$0.45
0.47	5.0	RZ-6626	\$0.75	\$0.53	\$0.45
1.0	5.0	RZ-6628	\$0.75	\$0.53	\$0.45
1.5	5.0	RZ-6630	\$0.75	\$0.53	\$0.45
2.2	5.0	RZ-6632	\$0.75	\$0.53	\$0.45
4.7	5.0	RZ-6640	\$0.95	\$0.65	\$0.55
6.8	5.0	RZ-6645	\$1.15	\$0.80	\$0.65
10	5.0	RZ-6655	\$1.15	\$0.80	\$0.65

MKT Capacitor Bargain Pack - Assorted Types

A vast array of over 90 high quality WIMA brand X2 type and other capacitors.

No two bags are the same.
 Excellent value for money.

NEW
2017

Note: Pack contents may vary to the one shown

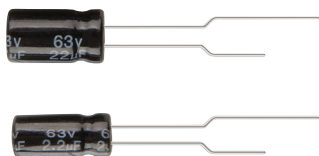
Limited stock

▲	Cat.	Qty 1+
	XB-9008	\$24.95

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'.
 Conditions apply - see page 528 for details.

CAPACITORS (CONTINUED)

PC Mount RB
Electrolytic - 105°C

10V

Value (μF)	Pitch (mm)	Ø x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
220	5.0	6.5 x 11	180	RE-6157	\$0.35	\$0.25	\$0.21

16V

Value (μF)	Pitch (mm)	Ø x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
10	2.0	5 x 11	45	RE-6066	\$0.30	\$0.21	\$0.18
22	2.0	5 x 11	60	RE-6079	\$0.30	\$0.21	\$0.18
47	2.0	5 x 11	100	RE-6100	\$0.35	\$0.25	\$0.21
100	2.5	6.3 x 11	170	RE-6130	\$0.35	\$0.25	\$0.21
220	3.5	8 x 12	280	RE-6158	\$0.40	\$0.28	\$0.24
330	3.5	8 x 12	360	RE-6188	\$0.50	\$0.35	\$0.30
470	3.5	8 x 16	460	RE-6194	\$0.60	\$0.42	\$0.36
1000	5.0	10 x 16	760	RE-6220	\$0.95	\$0.65	\$0.55
2200	5.0	13 x 23	1250	RE-6238	\$1.15	\$0.80	\$0.65
4700	7.5	16 x 26	1960	RE-6243	\$2.25	\$1.55	\$1.35

25V

Value (μF)	Pitch (mm)	Ø x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
10	2.0	5 x 11	45	RE-6070	\$0.35	\$0.25	\$0.21
22	2.0	5 x 11	70	RE-6090	\$0.35	\$0.25	\$0.21
33	2.0	5 x 11	95	RE-6095	\$0.35	\$0.25	\$0.21
47	2.5	5 x 11	120	RE-6110	\$0.35	\$0.25	\$0.21
100	2.5	6.3 x 11	180	RE-6140	\$0.45	\$0.32	\$0.27
220	3.5	8 x 12	320	RE-6160	\$0.45	\$0.32	\$0.27
330	5.0	10 x 13	420	RE-6190	\$0.70	\$0.49	\$0.42
470	5.0	10 x 16	540	RE-6195	\$0.75	\$0.53	\$0.45
1000	5.0	13 x 20	900	RE-6230	\$1.15	\$0.80	\$0.65
2200	5.0	13 x 26	1460	RE-6240	\$1.50	\$1.05	\$0.90
4700	7.5	16 x 35	2150	RE-6244	\$3.45	\$2.35	\$2.00

50V

Value (μF)	Pitch (mm)	Ø x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
4μ7	2.0	5 x 11	35	RE-6058	\$0.35	\$0.25	\$0.21
220	5.0	10 x 17	430	RE-6180	\$1.20	\$0.80	\$0.70
2200	7.5	16 x 35	1900	RE-6241	\$3.25	\$2.25	\$1.90
4700	10	22 x 40	2280	RE-6245	\$5.75	\$3.95	\$3.40

63V

Value (μF)	Pitch (mm)	Ø x H (mm)	Ripple Current (mA)	Cat.	Qty 1+	Qty 25+	Qty 100+
μ47	2.0	5 x 11	8	RE-6020	\$0.30	\$0.21	\$0.18
1μ	2.0	5 x 11	15	RE-6032	\$0.30	\$0.21	\$0.18
2μ2	2.0	5 x 11	22	RE-6042	\$0.30	\$0.21	\$0.18
3μ3	2.0	5 x 11	30	RE-6045	\$0.30	\$0.21	\$0.18
4μ7	2.0	5 x 11	40	RE-6060	\$0.35	\$0.25	\$0.21
10	2.0	5 x 11	65	RE-6075	\$0.35	\$0.25	\$0.21
22	2.5	6.3 x 11.5	100	RE-6080	\$0.35	\$0.25	\$0.21
47	3.5	8 x 12	180	RE-6122	\$0.45	\$0.32	\$0.27
100	5.0	8 x 16	280	RE-6150	\$0.95	\$0.65	\$0.55
470	5.0	13 x 25	880	RE-6210	\$1.65	\$1.15	\$0.95
1000	7.5	16 x 30	1400	RE-6236	\$2.45	\$1.70	\$1.45

105°C ELECTROLYTIC CAPACITORS

TECH TALK

Our range of RB PC mount electrolytics up to 63 Volt are 105°C rated.

This makes for more reliable service.

Consider this when making price comparisons with competitors' 85°C products.

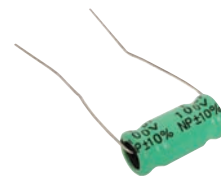
PC Mount RB Electrolytic - 85°C

35V

Value (μF)	Pitch (mm)	Ø x H (mm)	Ripple Current mA	Cat.	Qty 1+	Qty 25+	Qty 100+
22	5.0	5 x 11	80	RE-6092	\$0.35	\$0.25	\$0.21

100VDC Non-Polarised Crossover Type - 85°C

This range is ideal for crossover networks and will handle high power but are suitable for other applications of course. The range includes large values - up to 400μF, (required for subwoofers). All capacitors have RT or axial leads.



Value μF	Ø x L (mm)	Cat.	Qty 1+	Qty 5+	Qty 10+
1	8 x 17	RY-6901	\$2.10	\$1.85	\$1.65
2.2	8 x 17	RY-6902	\$2.10	\$1.85	\$1.65
3.3	8 x 19	RY-6903	\$2.20	\$1.95	\$1.75
4.7	8 x 19	RY-6904	\$2.20	\$1.95	\$1.75
6.8	10 x 19	RY-6906	\$2.50	\$2.21	\$2.05
10	10 x 19	RY-6908	\$2.50	\$2.21	\$2.05
15	10 x 19	RY-6910	\$2.65	\$2.35	\$2.07
22	10 x 24	RY-6912	\$3.10	\$2.75	\$2.45
33	13 x 27	RY-6914	\$3.65	\$3.25	\$2.90
47	13 x 32	RY-6916	\$4.85	\$4.30	\$3.85
68	16 x 34	RY-6918	\$5.50	\$4.90	\$4.30
100	16 x 34	RY-6920	\$7.45	\$6.65	\$5.90
150	18 x 38	RY-6924	\$11.95	\$10.70	\$9.50
220	18 x 44	RY-6928	\$13.95	\$12.35	\$10.95
300	22 x 44	RY-6932	\$18.95	\$16.95	\$14.95
400	22 x 44	RY-6936	\$21.95	\$19.70	\$17.35

2.5V Super Capacitors - 22 & 55 Farad

These specially engineered capacitors are actually a high-tech energy storage device - not the standard capacitors which they look identical to. Using a new combination manufacturing process where nano surface structured carbon is combined with organic electrolytes, this technique enables these capacitors to store 1,000 times the energy of a standard electrolytic capacitor. The main applications are energy storage at a circuit board level replacing the bulkier secondary batteries which are currently used. Essentially anywhere high energy storage is needed.

- 7.5mm lead spacing
- High density of energy
- Long lifetime (10 years)
- High cycle life (over 500,000 cycles)



Value F	Ø x H (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
22	16 x 25	RE-6702	\$13.95	\$9.75	\$8.25
55	18 x 40	RE-6704	\$17.95	\$12.35	\$10.75

5.5V Super Capacitor - 0.047 Farad & 1 Farad

Super capacitors are a standby power source capable of providing up to 30 days back-up voltage & current to CMOS RAMs during power failures. Never needs replacing or maintenance

- Can be soldered onto PCBs
- Can be charged at high & low current rates i.e. microamps to amps
- 5mm lead spacing



Value F	Ø x H (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
0.047	13 x 7.5	RU-6700	\$3.95	\$2.75	\$2.30
1.0	20 x 7.5	RU-6705	\$5.95	\$4.15	\$3.45

Motor Start Capacitors

Below is a range of capacitors specifically designed for starting up single-phase induction-type starter motors. These are suitable for motors operating at up to 400VAC and common values are offered here.

Please note it is important to choose the correct value for the motor otherwise the starting torque of the motor will change.

Two different packages are provided. For the higher valued capacitors it's necessary to use the different case style which provides the important AMP250A terminals and an inbuilt safety device.



Capacitance (μF)	W x D x H (mm)	Cat	Qty 1+	Qty 25+	Qty 100+
6.0	49 x 21 x 31	RU-6600	\$16.95	\$11.70	\$9.95
10	50 x 25 x 36	RU-6602	\$16.95	\$11.70	\$9.95
12	50 x 30 x 40	RU-6604	\$16.95	\$11.70	\$9.95
20	45 x 75	RU-6606	\$16.95	\$11.70	\$9.95
30	50 x 75	RU-6608	\$16.95	\$11.70	\$9.95

CAPACITORS (CONTINUED)

High Voltage RB Electrolytic

- 85°C rated

450V

* RE-6156 is 400V rated.

Value (μF)	Pitch (mm)	Ø x H (mm)	Ripple Current (mA)	Cat.	Qty 1+	Qty 25+	Qty 100+
1	3.5	10 x 14.5	12	RE-6034	\$1.75	\$1.20	\$1.05
2μ2	5.0	10 x 17	28	RE-6044	\$1.75	\$1.20	\$1.05
4μ7	5.0	10 x 20.5	48	RE-6062	\$2.50	\$1.75	\$1.50
10	5.0	13 x 21.5	75	RE-6078	\$3.50	\$2.45	\$2.05
47	8.0	17.5 x 36	285	RE-6125	\$7.50	\$5.25	\$4.45
100	13	18 x 42.5	521	RE-6156*	\$7.95	\$5.50	\$4.75

Low Impedance* or ESR' Capacitors

Stable, low impedance characteristics
High ripple current*
Low DC leakage current
Extended life - high reliability withstanding
2,000 to 4,000 hours load life at 105°C
Radial leads on standard pitch

*Impedance: max at 20°C 100kHz

**Ripple current measured at 105°C 100kHz.

†Equivalent Series Resistance

10VDC

Value (μF)	Ø x H (mm)	Impedance Ω*	Ripple Current (mA) RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
220	6.3 x 12	0.22	340	RE-6300	\$0.42	\$0.29	\$0.25
470	8 x 11	0.13	640	RE-6302	\$0.50	\$0.35	\$0.30
1000	10 x 16	0.06	1210	RE-6304	\$0.85	\$0.60	\$0.51
2200	10 x 16	0.05	1900	RE-6306	\$1.25	\$0.85	\$0.75
4700	13 x 24	0.028	2552	RE-6308	\$2.25	\$1.55	\$1.35

16VDC

Value (μF)	Ø x H (mm)	Impedance Ω*	Ripple Current (mA) RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
100	6.3 x 11	0.22	340	RE-6310	\$0.42	\$0.29	\$0.25
220	8 x 11	0.13	640	RE-6312	\$0.46	\$0.32	\$0.28
470	8 x 16	0.087	840	RE-6314	\$0.50	\$0.60	\$0.51
1000	10 x 20	0.046	1400	RE-6316	\$1.25	\$0.85	\$0.75
2200	16 x 25	0.035	2210	RE-6318	\$1.65	\$1.15	\$0.95
4700	16 x 32	0.022	3029	RE-6320	\$2.95	\$2.00	\$1.75

25VDC

Value (μF)	Ø x H (mm)	Impedance Ω*	Ripple Current (mA) RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
100	8 x 11	0.22	340	RE-6322	\$0.50	\$0.35	\$0.30
220	8 x 12	0.13	640	RE-6324	\$0.50	\$0.35	\$0.30
470	10 x 16	0.060	1210	RE-6326	\$0.95	\$0.65	\$0.55
1000	13 x 20	0.035	1900	RE-6328	\$1.50	\$1.05	\$0.90
2200	16 x 25	0.022	2743	RE-6330	\$1.85	\$1.25	\$1.10

35VDC

Value (μF)	Ø x H (mm)	Impedance Ω*	Ripple Current (mA) RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
47	6.3 x 11	0.22	340	RE-6332	\$0.42	\$0.29	\$0.25
100	8 x 11	0.13	640	RE-6334	\$0.50	\$0.35	\$0.30
220	10 x 16	0.09	840	RE-6336	\$0.80	\$0.56	\$0.48
470	10 x 20	0.046	1400	RE-6338	\$1.40	\$0.95	\$0.80
1000	16 x 25	0.035	2552	RE-6340	\$1.95	\$1.35	\$1.15

63VDC

Value (μF)	Ø x H (mm)	Impedance Ω*	Ripple Current (mA) RMS	Cat.	Qty 1+	Qty 25+	Qty 100+
22	6.3 x 11	0.70	180	RE-6342	\$0.42	\$0.29	\$0.25
47	8 x 11.5	0.30	295	RE-6344	\$0.50	\$0.35	\$0.30
100	10 x 20	0.12	760	RE-6346	\$0.95	\$0.65	\$0.55
220	10 x 20	0.060	1220	RE-6348	\$1.25	\$0.85	\$0.75
470	16 x 20	0.043	1690	RE-6350	\$1.75	\$1.20	\$1.05

LOW ESR CAPACITORS

ESR means Equivalent Series Resistance.

Ordinary electrolytics are constructed in such a way that they can be quite "leaky", i.e. will conduct a small amount of DC current. They also have a fairly high impedance. This is not a problem if they are just used to filter 50 or 100Hz pulsating DC in a linear power supply. It is a problem if there is a high repetition pulse on, say, a switchmode DC supply line that needs to be filtered. A pulse train of, say, 50kHz will be virtually "ignored" by a standard electrolytic. A low ESR device has the ability to integrate the pulses into a smooth DC rail, and as a bonus not heat up in the process.

TECH TALK

RBLL Low Leakage Electrolytic

- 85°C rated
- Leakage characteristic similar to tantalum caps, but at a lower price

25V

Value (μF)	Lead (mm) Spacing	Size (mm) Ø x H	Cat.	Qty 1+	Qty 25+	Qty 100+
22	2.5	6.3 x 11	RL-6430	\$0.65	\$0.46	\$0.39
33	2.5	6.3 x 11	RL-6432	\$0.65	\$0.46	\$0.39
47	3.5	8 x 12	RL-6434	\$0.95	\$0.65	\$0.55
100	3.5	8 x 12	RL-6436	\$1.10	\$0.75	\$0.65

50V

Value (μF)	Lead (mm) Spacing	Size (mm) Ø x H	Cat.	Qty 1+	Qty 25+	Qty 100+
0μ1	2.0	5 x 11	RL-6402	\$0.48	\$0.34	\$0.29
0μ22	2.0	5 x 11	RL-6406	\$0.48	\$0.34	\$0.29
0μ33	2.0	5 x 11	RL-6408	\$0.48	\$0.34	\$0.29
0μ47	2.0	5 x 11	RL-6410	\$0.48	\$0.34	\$0.29
0μ68	2.0	5 x 11	RL-6412	\$0.48	\$0.34	\$0.29
1μ0	2.0	5 x 11	RL-6414	\$0.48	\$0.34	\$0.29
1μ5	2.0	5 x 11	RL-6418	\$0.48	\$0.34	\$0.29
2μ2	2.0	5 x 11	RL-6420	\$0.48	\$0.34	\$0.29
3μ3	2.0	5 x 11	RL-6422	\$0.48	\$0.34	\$0.29
4μ7	2.0	5 x 11	RL-6424	\$0.48	\$0.34	\$0.29
10	2.5	6.3 x 11	RL-6428	\$0.67	\$0.47	\$0.40

RP Electrolytic

This style of capacitor is distinguished because, whilst bulky, does not need a chassis clamp. Fixing is by the stout lead wires. While soldered retention is generally adequate. For applications where vibration is an issue a dab of silicone under the component is recommended.

- 85°C rated

40V

Value (μF)	Ripple Current(A)	Size (mm)	Rated	Cat.	Qty 1+	Qty 25+	Qty 100+
5600	2.4	26 x 42	85°C	RU-6709	\$8.95	\$6.25	\$5.25
10000	2.7	26 x 51	85°C	RU-6720	\$11.95	\$8.25	\$6.95

RG Chassis Mount Electrolytic

- 85°C rated

Value (μF)	Voltage (V)	Ripple Current(A)	Size (mm) Ø x H	Cat.	Qty 1+	Qty 25+	Qty 100+
4000	75	4.6	35 x 51	RU-6708	\$11.95	\$8.25	\$6.95
8000	80	3.47	35 x 76	RU-6710	\$14.95	\$10.35	\$8.75
10000	100	8.1	50 x 80	RU-6712	\$28.95	\$19.95	\$14.95

All supplied with mounting bracket. Height and diameter column excludes lugs - 8mm.

CAPACITOR TYPES

TECH TALK

These offer low cost and high capacitance in a small physical size. Normally there are two types, the 'High Stability Temperature Compensating' type and the 'Bypass and Coupling' type. The former for use in resonant circuit and filter applications, with a value largely independent of voltage and frequency. The latter is for use in less critical applications, as they are less stable and have non-linear temperature characteristics and are somewhat voltage dependent.

POLYESTER:

These type offer good stability, a large range of values at low cost, and are the most widely used capacitor for general purpose.

POLYCARBONATE:

These have a low temperature coefficient, low dielectric loss at high frequency and excellent temperature stability characteristics.

POLYSTYRENE:

These offer tight tolerance and are highly stable; making them suitable for very stable tuned circuits and oscillators.

POLYPROPYLENE:

This type has a very low dielectric loss and are particularly suitable in audio circuits and sample-and-hold circuits.

MYLAR:

This is the Du Pont tradename for polyester. They usually have an aluminium film deposit on the dielectric and are called "metallised polyester".

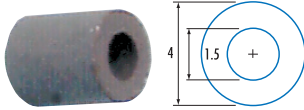
Capacitor Quick Reference Chart

USE	CAPACITOR TYPE	CAT. NO	PAGE
RF	Ceramic	RC-5XXX	282
AUDIO	MKT	RM-7XXX	281
SMPS	Low ESR	RE-63XX	284
PSU	Electrolytic	RE-60XX	283
CROSSOVER	Poly/Electrolytic	RY-69XX	283
MOTOR	Motor Start	RU-66XX	283

FERRITES

Ferrite Bead

These small tubes can be threaded on to a wire to provide RF or interference suppression at frequencies higher than the normal operating range of the equipment to be protected.



▲ Length (mm)	Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
5.0	6	LF-1250	\$3.95	\$2.75	\$2.30

Ferrite Suppression Sleeves

Similar to suppression beads (see above) but longer for greater attenuation.

Cat.	Typical Impedance	
	(Z)@25MHz	(Z)@100MHz
LF-1256	52	66
LF-1258	130	200
LF-1260	161	255

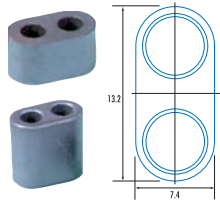


▲ Length (mm)	A (mm)	B (mm)	Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
16	8.0	5.6	6	LF-1256	\$4.95	\$3.45	\$2.90
20	12	5.6	6	LF-1258	\$6.50	\$4.45	\$3.75
29	16	8.0	6	LF-1260	\$7.50	\$5.25	\$4.45

Standard Transformer (Balun) Cores

Generally used in VHF/UHF circuits for balanced or unbalanced line matching. Can also be used as a lossy choke, etc.

- Material: Type M7
- Insertion Loss: 40-220MHz 0.5dB > 220MHz 1.0dB



▲ Length (mm)	Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
6.0	2	LF-1222	\$2.50	\$1.75	\$1.50
14	2	LF-1220	\$2.50	\$1.75	\$1.50

Ferrite Flat Bar

- Short and compact.
- Ideal for MW tuned circuits
- Frequency: 0.5 - 10MHz
- Also suitable for suppression work



▲ L x W x D (mm)	Cat	Qty 1+	Qty 25+	Qty 100+
40 x 12 x 5	LF-1016	\$2.50	\$1.75	\$1.50

Ferrite Rounds

- 9mm diameter.
- Material S-1
- Ideal for MW tuned circuits or suppression work



▲ Ø x W (mm)	Cat	Qty 1+	Qty 25+	Qty 100+
9 x 100	LF-1010	\$2.50	\$1.75	\$1.50
9 x 180	LF-1012	\$5.25	\$3.60	\$3.15

Ferrite Rod With Coil

Small ferrite rod complete with pre-wound standard broadcast band coil. Ideally suitable to our 60-160pf mini tuning capacitor



▲ L x W x D (mm)	Cat	Qty 1+	Qty 25+	Qty 100+
55 x 12.5 x 4.5	LF-1020	\$3.50	\$2.45	\$2.05

High Frequency Ferrite Choke

PCB mounting ferrite chokes suitable for frequency circuits.



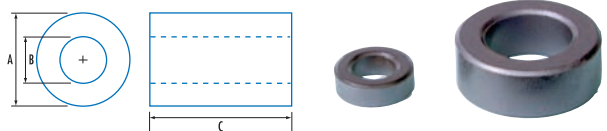
▲ Inductance	Pitch (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
47µH	5.0	LF-1100	\$0.85	\$0.60	\$0.51
100µH	5.0	LF-1102	\$0.85	\$0.60	\$0.51
220µH	5.0	LF-1104	\$0.85	\$0.60	\$0.51
330µH	5.0	LF-1106	\$0.85	\$0.60	\$0.51
470µH	5.0	LF-1108	\$0.85	\$0.60	\$0.51

Toroid (or Ring) Cores

Toroid (both ferrite and powdered iron) are commonly used as cores for transformers or chokes mainly for RF suppression but also for any application where a compact reactive component is needed.

FERRITE MATERIAL

Drawing for both ferrite and powdered iron types
See website for more info.



MATERIAL L8 SIZE 18(A) X 10(B) X 6(C) (mm)

▲ Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
6	LO-1230	\$3.50	\$2.45	\$2.05

MATERIAL L8 SIZE 25(A) X 15(B) X 10(C) (mm)

▲ Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
4	LO-1234	\$4.95	\$3.45	\$2.90

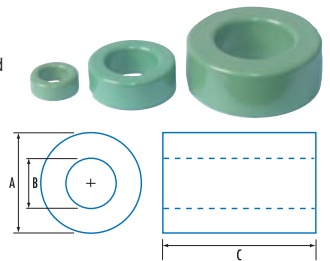
MATERIAL L15 SIZE 35(A) X 21(B) X 13(C) (mm)

▲ Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
2	LO-1238	\$4.95	\$3.45	\$2.90

Powdered Iron Cores

These toroids are made out of compressed powdered iron and coated with a tough epoxy material. They are ideal for RF suppression of light dimmers, motor speed controllers, switch mode power supplies etc.

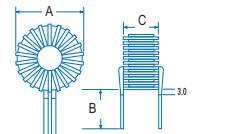
- Colour: Green epoxy coating.
- Contact us for bulk quantity prices
- Material HY-2



▲ A x B x C (mm)	Pkt	Cat	Qty 1+	Qty 25+	Qty 100+
15 x 8 x 6.5	4	LO-1242	\$6.50	\$4.45	\$3.75
28 x 14 x 11	2	LO-1244	\$5.50	\$3.75	\$3.25
42 x 22 x 17	1	LO-1246	\$8.95	\$6.25	\$5.25

Through Hole EMC/RFI Suppression Chokes

Ideal for all wideband choke applications. Highly effective against EMI/RFI entering equipment via the mains power lines. Powdered iron core.



SPECIFICATIONS	LF-1270	LF-1272	LF-1274	LF-1276	LF-1278
RDC mΩ	50	25	25	60	82
Wire Dia mm	1.0	0.8	1.0	1.0	1.0
Dimension A mm	26	21	24.5	28.5	31
Dimension B mm	25	10	10	10	10
Dimension C mm	13	10.5	10	13	17

▲ Inductance (µH)	Current (A)	Cat	Qty 1+	Qty 25+	Qty 100+
100	3A	LF-1272	\$3.95	\$2.75	\$2.30
100	5A	LF-1270	\$3.95	\$2.75	\$2.30
47	5A	LF-1274	\$3.95	\$2.75	\$2.30
220	5A	LF-1276	\$5.95	\$4.15	\$3.45
470	5A	LF-1278	\$6.95	\$4.75	\$4.15

SMD Type EMC/RFI Suppression Chokes

These popular devices complement our wire - terminated LF-1270 style ferrite chokes. Good suppression of RF-EMI from DC/DC converters or any circuit which generates commutation noise etc. which needs to be suppressed to meet regulations. Supplied in bags of 10 cut from a tape reel.



SPECIFICATIONS	LF-1400	LF-1402
Inductance	100uH+/-10%	100uH+/-20%
Series DC resistance (RDC)	0.99Ω	179.6mΩ max
Rated DC current	520mA	1.8A
Size	5.8 x 4.5mm	12 x 12 x 8mm

▲ Pkt	Cat.	Qty 1+	Qty 25+	Qty 100+
10	LF-1400	\$7.95	\$5.50	\$4.75
10	LF-1402	\$12.95	\$8.95	\$7.75

FERRITES (CONTINUED)

Ferrite is a ceramic material with Iron Oxide - up to 50% - then with oxides of manganese and zinc or nickel. The ceramic material is mixed with these substances, pressed or extruded into useful shapes and finally fired in a furnace to their final hard, brittle state. From this there are two forms: Manganese - Zinc (Mn-Zn) ferrites which are the most common and are used for lower frequency work. They have higher permeability than the higher frequency type which have Nickel and Zinc Oxide components. The products shown in this catalogue are Mn-Zn types.

For more information check our website.

Flat Cable Suppression Sleeves

These devices are designed to suppress high frequency (fast rise time) interference (radiation) to and from PC boards, printers, disk drives etc.

The ferrite makes the cable behave like a high impedance choke at high frequencies.



FOR 16 WAY RIBBON CABLE

▲ Typical Impedance	25MHz	100MHz	Cat.	Qty 1+	Qty 25+	Qty 100+
Pkt 2	54Ω	120Ω	LF-1280	\$5.95	\$4.15	\$3.45

FOR 26 WAY RIBBON CABLE

▲ Typical Impedance	25MHz	100MHz	Cat.	Qty 1+	Qty 25+	Qty 100+
Each	38Ω	91Ω	LF-1284	\$6.95	\$4.75	\$4.15

FOR 50 WAY RIBBON CABLE

(Supplied as a split pair with 2 end clips)

▲ Typical Impedance	25MHz	100MHz	Cat.	Qty 1+	Qty 25+	Qty 100+
Each	72Ω	190Ω	LF-1286	\$12.95	\$8.95	\$7.75

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.
We're here to help.

Round Cable Suppression Sleeves

Basically a split high permeability ferrite core with a plastic case, these devices are ideal where parasitic voltage spikes or RF breakthrough are a problem or potential problem. The cores come in a hinged plastic case, simply snap on to the computer or data cable. Three versions are offered which cover most computer leads etc. For extra security, lock assembly together with a cable tie.



TYPICAL IMPEDANCE VS FREQUENCY

(Rise Time of Interference Signal) Note: All figures are approximate

Model	Cable Dia	1MHz	25MHz	50MHz	100MHz	300MHz	500MHz
U-25	12.5	10Ω	150Ω	200Ω	250Ω	290Ω	200Ω
U-16	8.3	20Ω	100Ω	200Ω	220Ω	150Ω	<100Ω
U-15	7.0	<10Ω	160Ω	220-250Ω	280Ω	300+Ω	245Ω

PLEASE NOTE:

- Full specifications available on website.
- If the cable can be looped through the core twice or more (obviously only for thinner cables) the attenuation is increased substantially.



MODEL U25:

This offers impedance (peak approx 300Ω at 2-300MHz) with negligible impedance below 1MHz. Plastic case measures 32L x 30mm square. It will take a lead up to 12mm (1/2") diameter but preferably 10mm.

▲	Cat.	Qty 1+	Qty 25+	Qty 100+
Each	LF-1290	\$9.95	\$6.75	\$5.75

MODEL U16:

A compact attenuator that will pass a cable up to 8mm dia (most monitor cables etc). Typical impedance at 25MHz 300Ω approx, 590Ω at 100MHz dropping off after that. Case measures 25.9(L) x 21.5(Dia)mm.

▲	Cat.	Qty 1+	Qty 25+	Qty 100+
Pkt 4	LF-1292	\$12.95	\$8.95	\$7.75

MODEL U15:

This model is for 7mm dia cable or smaller.

- Offers good protection up to 500MHz.

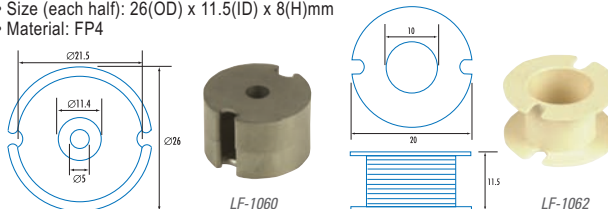
▲	Cat.	Qty 1+	Qty 25+	Qty 100+
Pkt 2	LF-1294	\$9.95	\$6.75	\$5.75



POT CORE & BOBBIN

This handy sized pot core set is made from low loss material and is equivalent to the original Philips FX 2240 part.

- Size (each half): 26(OD) x 11.5(ID) x 8(H)mm
- Material: FP4



▲	Cat.	Qty 1+	Qty 25+	Qty 100+
Pot Core - pair	LF-1060	\$6.95	\$4.75	\$4.15
Bobbin to suit	LF-1062	\$1.35	\$0.90	\$0.80

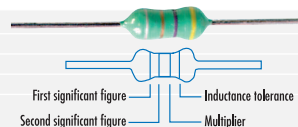
RF CHOKES

SPECIFICATIONS

Axial leads
Tolerance
Rated temp. rise
Dielectric withstanding voltage

ALL MODELS

Colour coded per IEC
±10%,
-20°C to +80°C
250Vrms



(μH) DC Inductance	(Ω) Rated Resistance	DC Current Max (mA)	Cat.	(μH) DC Inductance	(Ω) Rated Resistance	DC Current Max (mA)	Cat.
1μ0	0.09	920	LF-1510	47	1.22	340	LF-1530
1μ5	0.23	830	LF-1512	68	1.47	305	LF-1532
2μ2	0.28	750	LF-1514	100	1.80	275	LF-1534
3μ3	0.34	670	LF-1516	150	4.20	175	LF-1536
4μ7	0.39	620	LF-1518	220	5.10	155	LF-1538
6μ8	0.48	550	LF-1520	330	6.40	137	LF-1540
10	0.58	500	LF-1522	470	7.70	126	LF-1542
15	0.72	460	LF-1524	680	9.40	113	LF-1544
22	0.84	410	LF-1526	1000	14.00	100	LF-1546
33	1.03	370	LF-1528				

▲	Qty 1+	Qty 25+	Qty 100+
All the above	\$0.75	\$0.53	\$0.45

FERRITE RF COIL PACK

Mini Coil Pack

Set of 4 standard coils for AM section of a superheterodyne receiver with 455kHz IF offset. Colour dot on top of ferrite slug indicates type.

- Red is the oscillator coil
- White is the first 455kHz IF
- White is the 2nd
- Black is the 3rd.
- See website for more information.

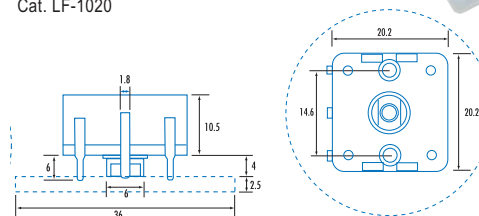


▲	Cat.	Qty 1+	Qty 25+	Qty 100+
	LF-1050	\$5.95	\$4.15	\$3.45

MINI TUNING GANG CAPACITOR

As used in most transistor radios and many kits that incorporate a radio.

- Size 20 x 20 x 10.5 high (mm)
- Supplied with 35(mm) dia. plastic knob & screw
- Capacitance range 60 - 160pF
- Suitable Ferrite Aerial Coil
- Cat. LF-1020



▲ Size (mm)	Cat.	Qty 1+	Qty 25+	Qty 100+
20 x 20 x 10.5	RV-5728	\$4.75	\$3.30	\$2.75

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here!
Check our website for over 3,500 pages of data!



EMI FILTERS

IEC EMI Power Line Filter - 6 Amp

These Industry standard design RF/EMI filters are designed to reduce line - to - ground (common mode) interference. They accept a standard IEC power line connector and are panel mounted. They meet (or exceed) international standard leakage requirements and are rated for mains voltages of 115 to 250V, 50, 60Hz.

• Safety & construction are in compliance with UL, CSA, VDE.



SPECIFICATIONS	MS-4003
Rated voltage	115/250VAC
Power line freq	50/60Hz
Rated current	6 amps
Maximum leakage current	@ 115 VAC 60Hz 0.25mA
Line to ground	@ 250VAC 50Hz 0.50mA
Test voltage	Line to ground: 2250VDC, one minute
	Line to line: 1450VDC, one minute
Typical insertion loss (dB) =	Line-to-ground in 50Ω system.

Current Rating	Freq (MHz)	0.5	1	5	10	30
6A	10	20	25	42	45	50



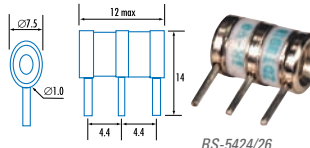
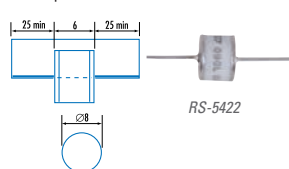
	Cat.	Qty 1+	Qty 4+	Qty 10+
▲	MS-4003	\$9.95	\$8.75	\$7.75

SURGE ARRESTORS

Gas Discharge Type Surge Arresters

Gas discharge arresters are ideal for quenching high voltage, fast rise-time interference transients. They are very high impedance (virtually open circuit) in the normal state with a typical capacitance of 1pF between electrodes. When a voltage spike appears, they arc over and present a relatively low impedance in this condition effectively quenching the spike. They are suitable for protection of telecom lines and antenna circuits. They are not recommended to be fitted across mains circuits as the low source impedance of the mains could destroy these devices after the fault spike has cleared.

• Well-proven and reliable device.



DC Spark Over Voltage	Axial	PCB Mount
90V +/- 20%	2 Electrodes	3 Electrodes
230V +/- 15%	Cat. RS-5422	Cat. RS-5424
		Cat. RS-5426

**MANUFACTURERS:
CONTACT US FOR
BULK PRICES.**

	Cat.	Qty 1+	Qty 10+	Qty 25+
230V 2 Electrodes	RS-5422	\$9.95	\$8.75	\$7.75
90V 3 Electrodes	RS-5424	\$9.95	\$8.75	\$7.75
230V 3 Electrodes	RS-5426	\$9.95	\$8.75	\$7.75

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'.
Conditions apply - see page 528 for details.

TRANSIENT VOLTAGE SUPPRESSORS (TVS)

- Excellent clamping voltage
- Low Zener impedance
- Fast response time
- Operating & storage temperature -55°C to 175°C

400W RANGE (DC) • Peak power: 400W • Steady state: 1W

Standoff Voltage(V) Vbr	Clamp Voltage	Peak Pulse Current(A)	Package Size	Cat.	Qty 1+	Qty 10+	Qty 25+	
5.5	6.12	10.8	38	D0-41	ZR-1150	\$1.75	\$1.55	\$1.40
12.1	13.5	22.0	19	D0-41	ZR-1152	\$1.75	\$1.55	\$1.40
12.9	14.4	23.5	18	D0-41	ZR-1154	\$1.75	\$1.55	\$1.40

400W RANGE (AC) • Peak power: 400W • Steady state: 1W

Standoff Voltage(V) Vbr	Clamp Voltage	Peak Pulse Current(A)	Package Size	Cat.	Qty 1+	Qty 10+	Qty 25+	
12.8	14.3	21.2	20	D0-41	ZR-1160	\$1.85	\$1.65	\$1.45
13.6	15.2	22.5	19	D0-41	ZR-1162	\$1.85	\$1.65	\$1.45
342	380	548	0.7	D0-41	ZR-1164	\$3.95	\$3.45	\$3.15



240V AC EMI Filter

Designed for mounting inside a chassis, these industry standard RF/EMI filters are pre-designed to reduce line-to-ground (common mode) interference. Rated for mains voltages of 125 or 240VAC 50 or 60Hz, they are very useful when mains cords are fixed to the outside chassis and an IEC320 inlet is not suitable.



POWERTECH

SPECIFICATIONS	MS-4000/MS-4001
Rated voltage	250VAC, 50Hz
Rated current	10A
Leak current	0.8mA max
Insulation resis	100M ohm min
Attenuation	1 - 50MHz
Termination	PCB mounting pins (MS-4000) & solder tags (MS-4001)
Dimensions: MS-4000	36(L) x 31(W) x 19(H)mm
Dimensions: MS-4001	50(L) x 25(W) x 31(H)mm



	Cat.	Qty 1+	Qty 25+	Qty 100+
▲ PCB Mount - 4 Way	MS-4000	\$7.95	\$6.95	\$6.25
Chassis Mount - 6 Way	MS-4001	\$9.95	\$6.75	\$5.75

VOLTAGE PROTECTION

Metal Oxide Varistors (MOV)

Ideal protection against voltage spikes or transients. Most mains filters have MOVs. Helps to prevent damage to sensitive equipment such as microprocessors and digital electronics. Resin dipped case.



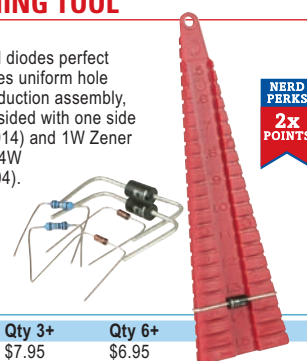
Prices per each

Operating Voltage(AC)	Dia	Clamping Voltage(V)	Peak Current(A)	Max Energy(J)	Cat.	Qty 1+	Qty 10+	Qty 25+
10	8	143	100	0.4	RN-3411	\$1.75	\$1.55	\$1.40
10	13.5	18	500	2.8	RN-3412	\$1.75	\$1.55	\$1.40
10	17.5	143	1000	6.6	RN-3413	\$1.75	\$1.55	\$1.40
275	13.5	710	2500	60	RN-3406	\$1.75	\$1.55	\$1.40
275	17.5	710	4500	115	RN-3400	\$1.75	\$1.55	\$1.40
275	24	710	6500	190	RN-3404	\$1.75	\$1.55	\$1.40
460	13.5	750	2500	125	RN-3415	\$1.75	\$1.55	\$1.40
460	17.5	750	4500	203	RN-3416	\$1.75	\$1.55	\$1.40
460	24	1240	6500	266	RN-3417	\$1.75	\$1.55	\$1.40

COMPONENT LEAD FORMING TOOL

Get the hole spacing for your resistors and diodes perfect every time. This handy forming tool provides uniform hole spacing from 10 to 38mm. Suitable for production assembly, education and training. The tool is double sided with one side for use with DO47 outline diodes (e.g. 1N914) and 1W Zener diodes; the other side being suitable for 1/4W resistors, DO41 outline diodes (e.g. 1N4004).

- An incredibly handy tool!
- Made in USA from engineering plastic.
- Dimensions: 138(L)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	TH-1810	\$8.95	\$7.95	\$6.95

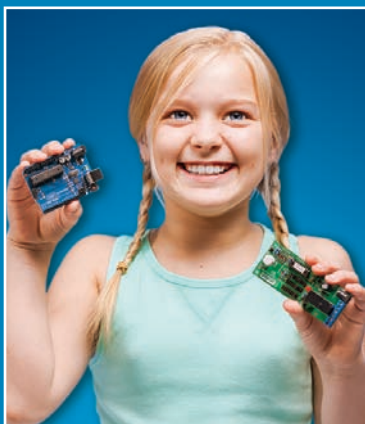


1500W RANGE (DC) • Peak power: 1500W • Steady state: 5W

Standoff Voltage(V) Vbr	Clamp Voltage	Peak Pulse Current(A)	Package Size	Cat.	Qty 1+	Qty 10+	Qty 25+	
12.1	13.5	22	69.1	D0-201	ZR-1168	\$2.95	\$2.60	\$2.40
12.9	14.4	23.5	64.7	D0-201	ZR-1170	\$2.95	\$2.60	\$2.40

1500W RANGE (AC) • Peak power: 1500W • Steady state: 5W

100W: 100W (100%) Peak power: 100W		Steady state: 5W						
Standoff Voltage(V) Vbr	Clamp Voltage	Peak Pulse Current(A)	Package Size	Cat.	Qty 1+	Qty 10+	Qty 25+	
13.6	15.2	22.5	67.6	D0-201	ZR-1175	\$3.95	\$3.45	\$3.15
30.8	34.2	49.9	30.5	D0-201	ZR-1177	\$4.95	\$4.45	\$3.90
342	380	548	2.8	D0-201	ZR-1180	\$4.95	\$4.45	\$3.90



INDEX - PROJECTS & LEARNING

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What we love more than anything at Jaycar is making things, and our Projects section is really where it's at for the Makers. If you're a budding Maker who wants to learn about science and electricity, we've got learning projects for science, green power and robotics, as well as construction kits for kids that want to build something that works.

If you want to make something electronic, there's the range of Short Circuit kits ranging from the No-Soldering-Needed

Short Circuits Volume 1 through to the advanced Short Circuits Volume 3, and a wide range of DIY kits from the audio, video, automotive, power and household fields amongst others.

And we wouldn't be able to say we're for Makers without mentioning our 3D Printers, filaments and accessories, and our huge range of Arduino boards, shields, modules and accessories. We've got it so you can make it!

SCIENCE PROJECT KITS

Home Volcano Mini Science Kit

This is a fun and safe way to explore the science of volcanoes. The booklet and experiments included demonstrate what volcanoes are and how they work. It demonstrates how pressure forces eruptions, volcanic expansion, types of volcanoes, and more. You can even explore how volcanic ash disperses! All using safe, non-toxic materials. Very educational in a well illustrated and entertaining way.

- 5 x volcanic principles and experiments
- Well illustrated
- Educational and entertaining

Limited Stock



NEW
2017

▲	Cat.	Qty 1+
	KJ-9012	\$6.95

First Electric Circuit Mini Science Kit

Using very safe low voltages, you can explore how electrical circuits work. By using simple elements like a light bulb, switch, and battery, you'll learn the basics in an interesting way. Further principles such as conductivity and polarity are also demonstrated. Suitable for ages 8+. Includes everything required except 1 x D battery.

- Teaches electric principles
- Illustrated experiment workbook
- Ages 8+
- Dimensions: 90(L) x 41(W) x 41(H)mm
- Requires: 1 x D battery

Limited Stock



NEW
2017

▲	Cat.	Qty 1+
	KJ-9013	\$6.95

Static Shocker Mini Science Kit

Discover a world of fun and learn the principles behind static electricity. The kit includes a mini Van der Graaf generator, which builds a static charge. Then you can see how static electricity can create safe sparks, interact with water, and even illuminate a neon bulb without touching it. Of course, it'll make your hair stand on-end too! Safe for ages 8+ and lots of fun.

- Mini Van de Graaf Generator
- Experiments included
- Fun learning
- Battery: Requires 2 AA batteries (Not included)
- Dimensions: 75(L) x 52(W) x 190(H)mm

Limited Stock



NEW
2017

▲	Cat.	Qty 1+
	KJ-9014	\$6.95

Planetarium Educational Kit

What better way to learn about our own Solar System than leaving your own marks on each of the planets? Assemble your own planetarium model, paint it and add highlights to create a glow effect. Watch the 30cm model glow in the dark - it's out of this world! Featuring the Sun, Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune (our condolences to Pluto).

- Snap to build, no glue required at all
- Dimensions: 220(L) x 170(H) x 60(D)mm
- Suitable for ages 3+



DIY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8994	\$9.95	\$8.75	\$7.75

Paper Making Mini Science Kit

This new generation paper making kit will show you how to recycle paper from magazines or cardboard milk cartons, but also how to make food based paper using greens and veggies! Hours of fun and very practical! You'll need a blender, scissors, and ingredients, but everything else is supplied. Ages 6+.

- Make paper from veggies
- Recycle your own paper
- Fun and practical

Limited Stock



NEW
2017

▲	Cat.	Qty 1+
	KJ-9010	\$6.95

SHOW US
YOUR BUILD
COMPETITION

Jason, who shops at
our Jaycar Midland
store built:



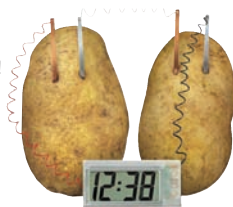
“ This salt water powered car built by my 9 year old - with some help from his Dad. It was fun to build and we were amazed that it runs on salt water, inexpensive to buy and we had a great time together building it. ”

SCIENCE PROJECT KITS (CONTINUED)

Potato Clock

You can generate enough electricity to run a digital clock by plugging electrodes into common potatoes! An amazing chemical experiment which also works with tomatoes, lemons, apples - even soft drink or beer! All parts (except fruit/veg) supplied including:

- Highly accurate digital clock module
- Metal electrodes, wire
- Instructions and fluid beakers
- Perfectly safe for children and highly educational. (Do not eat fruit/veg after using as batteries)
- Clock dimensions: 65(W) x 30(H) x 12(D)mm
- Suitable for ages: 10+



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8937	\$12.95	\$11.35	\$10.35

Balloon Powered Helicopter Propulsion Kit

This simple little kit demonstrates how helicopter flight is possible. Assemble the blades, blow up the balloon then attach to the blade axle and the air from the balloon will pass through a passageway of each blade causing them to spin. This rotational motion, coupled with the angled blade design allows for enough downward force for the kit to fly.

- Assembly time: 43 seconds
- Suitable for ages 5+
- Dimensions: 260(Dia) x 30(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8908	\$5.95	\$5.25	\$4.75

BUY IT ON THE WEB...

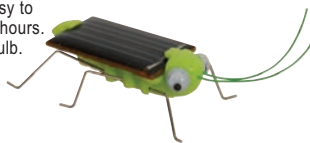
Shop for all these Jaycar Electronics products on our website - and check out our latest products & offers!

LEARN ABOUT GREEN POWER

Solar Powered Grasshopper Kit

Are your children fascinated with insects? This mini solar powered grasshopper is easy to assemble and will keep them occupied for hours. Runs from sunlight or by a 50W halogen bulb. Small enough to fit in the palm of their hand!

- Suitable for ages 8+
- Dimensions: Approx 40mm long



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GT-3751	\$12.95	\$11.35	\$10.35

Hobby Solar Module

Ideal for powering solar projects, hobbies, model solar cars & educational applications.

- 3 cells per module, rated at 1.5V.

SPECIFICATIONS	ZM-9012
Open circuit voltage	1.5V
Short circuit current	500mA
Dimensions	148(L) x 74(W)mm
Weight	33g



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	ZM-9012	\$9.95	\$9.45	\$8.95

1.5V 40mA Hobby Solar Panel

Experiment with solar energy - the energy source of the future. This hobby solar cell module is so small, it could easily be used in your next Arduino project.

- Connection is via the solder pads on the back
- Dimensions: 30(L) x 21(W) 2.5(H)mm



NEW
2017

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	ZM-9015	\$4.95	\$4.70	\$4.45

Salt Water Fuel Cell Engine Car Kit

An entertaining educational kit demonstrating the concept of a salt powered automotive engine. It gives the next generation a look at alternative means of propelling cars of the future. It works with a combination of salt water and magnesium plates. When salt water is added it dissolves the magnesium to form hydrogen which is attracted to the cathode creating a flow of electrons. A detailed step by step assembly manual for connecting the myriad of components is included and the car engine can be configured as a V8 or flat engine. The cylinders also move up and down as the car moves forward. The finished vehicle is 4 wheel drive and the body will twist as it navigates its way over small pebbles and bumps. Watch a demonstration video on our website. You may require the use of a side cutter and flat/phillips head screwdrivers.



- Assembly time: 3 hours
- Suitable for ages 8+
- Dimensions: 120(L) x 100(W) x 91(H)mm

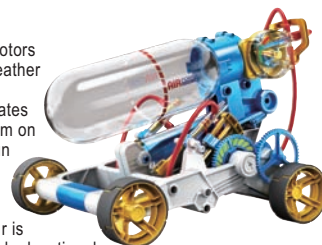
Ramp not included



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	Salt Water Fuel Cell Engine Car Kit KJ-8960	\$24.95	\$22.35	\$19.70
	Spare Cartridge KJ-8961	\$6.95	\$6.25	\$5.50

Air Power Engine Car Kit

A green powered car! No batteries or motors required and it is not even subject to weather conditions like its solar powered counterparts. This futuristic car kit operates entirely using air, and it travels up to 80m on one single tank. This kit balances the fun and learning perfectly. A built-in hand pump with pressure meter is built in the car for easy operation and also as an indicator in measuring how volume of air is collected into the tank. Build this fun and educational kit and discover and learn about air pressure, pumps, valves, transfer of energy and green power, all that with the thrill of a speedy car!



- Dimensions: 190(L) x 160(W) x 290(H)mm
- Suitable for ages 10+



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8967	\$49.95	\$44.95	\$39.95

6-in-1 Solar Robot

This fantastic DIY kit for the kids is super fun and captures the imagination of the young ones with everyday household material. Build wacky robots out of a coke can, a water bottle or wasted CDs, and even better, all of them can be powered by the sunlight using mini solar panels. A great toy to play, learn, and encourage awareness of the environment.

6 robots to build:

- Drummer Robot
- Flying Bird
- Walking Robot
- Street Roller
- Bottle Yacht
- CD Racer
- Suitable for ages 10+
- No batteries required (can not included)



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	6 in 1 KJ-8939	\$12.95	\$11.35	\$10.35

"T4" Transforming Solar Powered Robot Kit

The basis of this kit is two moulded 'frames' of component parts reminiscent of a plastic model aeroplane kit - about 50 parts! It also has a small (40 x 25mm) solar panel, a tiny electric motor, gears, pinions, etc. It also includes decals. It can 'transform' between a T-Rex or Rhino beetle with moving legs and jaw, Robot with walking legs and moving wheels, and a futuristic miners drilling machine with moving drilling bit and wheels. You will probably need a small diagonal pliers to cut out and de-flash all the plastic parts from the frame.



- Robot stands about 100mm tall
- Detailed 34 page assembly manual is also included.
- Suitable for ages 8+



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	4 in 1 KJ-8965	\$24.95	\$22.35	\$19.70

LEARN ABOUT GREEN POWER (CONTINUED)

6 In 1 Solar Educational Robot Kit



A hands on experience in the world of solar power. This kit includes all the parts needed to construct up to six different projects. Choose between a robot, helicopter, plane, windmill, water skier or even a three wheeler! Don't even worry about screws, everything snaps together for easy assembly and its all solar powered so no batteries are required. For the best results, use it in direct sunlight. For cloudy days use a 50W halogen light.

• Suitable for ages 10+

SPECIFICATIONS	KJ-8936
Dimensions (Approx)	
Windmill	185 x 185 x 190mm
Helicopter	234mm
Water skier	140 x 75 x 95mm
Three wheeler	65 x 50 x 60mm
Robot	50 x 85 x 45mm
Plane	185 x 185 x 130mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
6 in 1	KJ-8936	\$12.95	\$11.35	\$10.35

Solar Educational Kit

Experiment with solar energy - the energy source of the future. Our solar educational kit lets you build your own solar models. The kit comes complete with:

- Solar cell module
- Solar energy booklet explaining the why & hows of solar energy
- Small DC motor
- Screws and nuts
- Wire with motor clips
- Colour spinner discs
- Paper aeroplane and bird models
- Plastic turntables with 4 sizes, 5/8", 1", 1.5" and 2"
- Plastic fan spinner
- Suitable for ages 8+



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-6690	\$18.95	\$16.95	\$14.95

Deluxe Solar Educational Kit

A series of do-it-yourself experiments to acquire the basic knowledge of solar energy. Supplied with a solar panel which incorporates 3 x 1.5V cells for series or parallel connection.

The kit comes complete with:

- Solar cell module with plastic stand
- Musical unit
- Plastic lamp
- Small DC motor with stand
- Wire with motor clips
- 4 jumper wires
- Nuts and plastic spanner
- Colour spinner discs
- Paper aeroplane and bird models
- Plastic turntables with 4 sizes, 5/8, 1, 1.5 & 2 inch
- Plastic fan spinner
- 14 page solar energy booklet explaining the why & hows of solar energy
- Suitable for ages 8+



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-6694	\$29.95	\$26.95	\$23.95

MONTHLY SPECIALS

Look out for our monthly promotions in store now!

6-in-1 Solar Educational Kit



Thousands Sold!

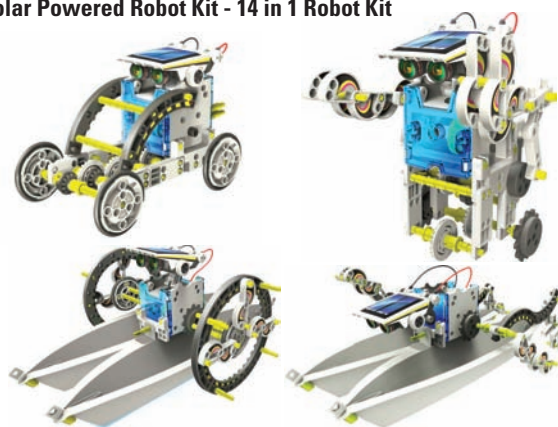
A brilliant kit for any junior eco-scientist. You can build any one of six different projects from the parts in the kit, then make them work by solar power. No tools, soldering or glue required. All the parts snap together with spring terminals for the wiring. The instructions are excellent with extremely clear and concise illustrations detailing every step. The finished projects are solar powered, but can also be powered by the light from a household 50W halogen light.

- Projects:
- Windmill
 - Car
 - Dog
 - Plane
 - Airboat
 - Revolving Plane
 - Suitable for ages 10+



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
6 in 1	KJ-8926	\$14.95	\$13.45	\$11.95

Solar Powered Robot Kit - 14 in 1 Robot Kit



This kit has so many included parts we don't have the time to count them, certainly at least 100 or more. Notable are a solar panel, solar powered electric motor boat hull components, gears etc. This kit can be transformed into 14 different functional robots, some of which admittedly are whimsical, but the kit itself is a fantastic learning experience: Mechanical, educational, scientific & solar physics skills are exercised. Best of all the kit comes with an assembly manual that is LEGO® like in the clarity of description. The manual itself runs to over 80 pages. This kit represents sensational value and is perfect for bright kids 10+ years. (A side cutter is really required to clip all of the parts out of the moulding frames - try TH-1897).

- Dimensions (Boat - bot): 245(L) x 170(W) x 100(H)mm
- Suitable for ages 10+

This kit can be assembled into:

- Turtle-bot
- Beetle-bot
- Boat-bot
- Walker-bot
- Dog-bot
- Wheel-bot
- Row-bot
- Roly Poly-bot
- Auto-bot
- Slither-bot
- Surf-bot
- Zombie-bot
- Crab-bot
- Quadro-bot



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
14 in 1	KJ-8966	\$49.95	\$44.95	\$39.95

A BIT OF FUN

Automated Electronic Bugs

Keep your kids entertained for hours with these small robotic creatures that fit into the palm of their hands! These autonomous, high speed creatures mimic the behavior of an insect. They will run and scurry around on an even floor, table and flat surface. They have the ability to change direction if they hit an obstruction or wall and can also flip upright if they end up on their back. The vibrating motor inside this creature rotates a counterweight and propels the robotic creature forward. A fun and safe way to entertain the kids for hours. They are the perfect collectible robot pet for your kids!

- Assorted Colours
- Batteries included
- Dimensions: 45(L) x 17(W)mm
- Suitable for ages 5+



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Sold Each	YG-2891	\$7.95	\$7.15	\$6.35

MICROSCOPES

Digital Microscope for iPhone® 4/5/6

Unleash your inner scientist! This microscope allows you to observe specimens with a significant level of magnification via your iPhone®. It is very easy-to-use and lightweight enough to carry around on your explorations. Simply place your specimen in the holder or directly under the base of the microscope, then place your iPhone® on the non-slip base to observe the specimen onscreen using your iPhone® camera app. The built-in light illuminates the specimen and the dial on the side allows you to adjust focus. Zoom in on the specimen using your iPhone® camera app's zoom function. Capture your findings as photos and videos and share them. Great for checking out small insects, flowers, or whatever excites your scientific mind! Compatible for use with iPhone® 4/5/6. Includes 6 specimen holders.

- 6 specimen holders
- Built-in LED light
- Requires 2 x AA batteries (Not Included)
- Dimensions: 200(L) x 108(W) x 35(W)mm

Note: iPhone® not included



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QC-3195	\$29.95	\$26.95	\$23.95

5MP USB 2.0 Digital Microscope with Professional Stand

A USB microscope with a simple but incredibly useful stand that allows you to make fine adjustments to the vertical height of the microscope and swivel the scope arm around a 360 degree range. This permits a greater level of viewing accuracy and stability. The microscope can be easily removed from the stand for situations which demand it. On either side of the stand there are two metal holders to lock your object in place and a printed ruler to help you get an approximate feel for the length of objects. The optics built into this microscope are excellent. The sharpness of texture on magnified objects is incredible to look at you will spend hours searching for things to magnify (check out a full resolution 5MP capture on our website).

It comes with a great piece of software for capturing 5MP (2592x1944) res JPGs, BMPs, TIFs or PNGs and 1280x960 pixel AVI files.

Excellent for educational purposes or a myriad of practical applications such as technicians, jewellers, laboratory work, and much more.

SPECIFICATIONS	QC-3199
Image sensor	5MP
Focus range	Manual focus from 10mm to 150mm
Snap shot	Button or software
Shutter speed	1 sec to 1/1000 sec
Still image resolution	2592x1944, 2048x1536, 1600x1200, 1280x960 pixels
Video capture resolution	1280x960
Flicker control	50Hz/60Hz
Light source	8 x LEDs with adjustable brightness
Magnification ratio	10x, 300x (at 5MP res)
Power source	USB
Compatibility	WinXP/Vista/7/8, Mac 10.6-10.8
Bundled software	Microcapture Pro with measurement function
Dimensions	Microscope: 110(L) x 33(Dia)mm, Stand: 165(H) x 165(L) x 118(W)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
10x, 300x	QC-3199	\$189.00	\$169.95	\$150.95

Wi-Fi Digital Microscope with Professional Stand

Observe the microscopic world and capture images, video, or even time lapse video of this strange and interesting realm. This digital microscope can zoom up to 200x enabling intricate views of any object placed underneath it. An adjustable array of 8 LEDs circles the lens to keep subjects well lit while zoom is controlled by rotating the rubber grip lined shaft. Comes with a professional stand which allows a high level of control and stability for viewing subjects. The stand is particularly useful for taking time lapse videos, keeping the microscope steady as bacterial growth is filmed.

Two side clips will hold your specimen in place.

It is great to use with Tablets or Smartphones as it allows greater mobility. As long there's a USB power source (just use an iPhone® plugpack) nearby. Battery can last approximately 2 hours between charges.

Overall, a fantastic way to introduce school age students (or adults!) to the world lurking beneath. This can be also used for many practical applications as well including fault finding on circuit boards, Smartphone repair, or by technicians in many fields.

SPECIFICATIONS	QC-3752
Interface	Wi-Fi (802.11b/g/n), up to 10m
Video capture resolution	1280x960, 1024x768, 640x480
Image capture resolution	1280x960, 1024x768, 640x480
Frame range	Max 30fps
Magnification ratio	50x to 200x
Video format	M4V
White balance	Auto
Exposure	Auto
Light source	8 x LEDs with adjustable brightness
Compatibility	Windows XP/Vista/7
Microscope dimensions	142(L) x 38(Dia)mm

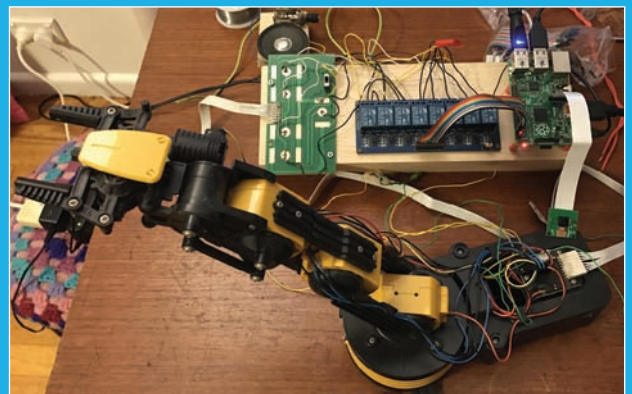


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
50x, 200x	QC-3752	\$249.00	\$223.95	\$198.95

SHOW US YOUR BUILD COMPETITION

Max, who shops at our Jaycar Gore Hill store built:

I wired the "Robot Arm Kit with Controller" to its own power source & wrote some software that allows me to control it from anywhere in the world via Slack (I message it commands like "run wrist down for 2 seconds").
The reason? To feed the dog when we are out, of course!



CONSTRUCTION KITS

Remote Control Dump Truck Construction Kit

Entertaining to build and fun to play with when complete, this DIY construction project includes everything needed to build a remote control dump truck. Resembling the classic mechanical construction kits seen for over a century with pre-drilled and standardised pieces for straightforward construction. No soldering or advanced skills required as all electronic components are pre-wired and simply clip into place.

- LED Lighting front and rear
- Recommended age: 8+



NEW
2017



SPECIFICATIONS	KJ-8998
Assembled Dimensions	210(L) x 135(W) x 120(H)mm
Truck Batteries	4 x AA (Not included)
Controller Batteries	3 x AAA (Not included)

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8998	\$69.95	\$62.95	\$55.95

Lamp Construction Kit

Resembling classic Meccano® with its pre-drilled and standardised pieces, this fantastic kit provides you with everything you need to build a desk lamp! You can configure it to run from batteries, or USB power. The stand can be adjusted to hold the lamp in many different positions. Using high quality metal components, it's durable and fun at the same time. Everything you need to build is provided, though you may find some common hand tools helpful too.

- High quality metal parts
- USB or battery power option



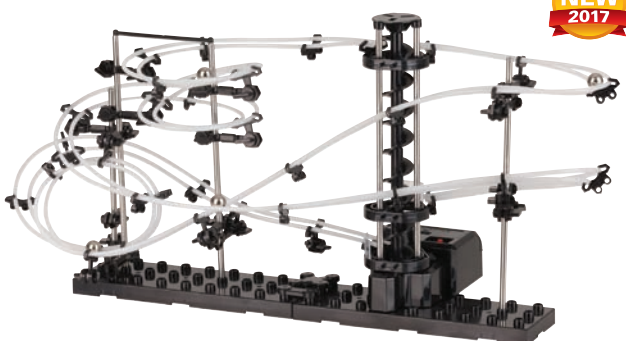
NEW
2017



SPECIFICATIONS	KJ-8999
Power	USB or 2 x AAA Batteries (not included)
Dimensions	90(L) x 170(W) x 340(H)mm (complete), 307g

▲	Cat.	Qty 1+
	KJ-8999	\$49.95

Space Rail Construction Kit



NEW
2017



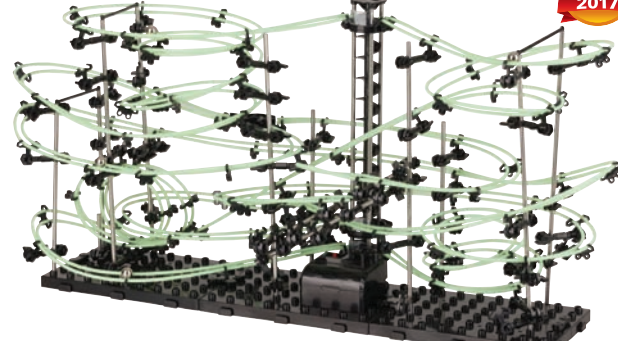
Build your own marble rollercoaster, in whatever shape you like! The spiral "elevator" lifts the marbles up to the top of the rail, and gravity takes care of the rest. It's entertaining, and a great lesson in physics. If you don't get the angles of the track right, the marbles won't make the journey! Hours of entertainment, and virtually unlimited track possibilities! Once you get it right though, they'll keep going around and around until you stop them (usually to make changes to the track)! Supplied with loads of pieces (146 in total) to make a 3m running track.

- Multi-fit baseboard
- Virtually unlimited design possibilities

SPECIFICATIONS	KJ-9000
Battery	1 x 1.5V (C) Battery
Dimensions	530(L) x 190(W) x 245(H)mm (Assembled), 462g

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-9000	\$29.95	\$26.95	\$23.95

Space Rail Construction Kit - Glow in the Dark



NEW
2017



This is the big brother of the space rail kits, to make a HUGE 11m running track! The spiral "elevator" lifts the marbles up to the top of the rail, and gravity takes care of the rest. It's entertaining, and a great lesson in physics. If you don't get the angles of the track right, the marbles won't make the journey! Hours of entertainment, and virtually unlimited track possibilities! Once you get it right though, they'll keep going around and around until you stop them (usually to make changes to the track)! Supplied with loads of pieces (488 in total) to make an 11m running track.

- Multi-fit baseboard.
- Virtually unlimited design possibilities,

SPECIFICATIONS	KJ-9001
Battery	1 x 1.5V (C) Battery
Dimensions	710(L) x 210(W) x 350(H)mm, 1kg

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-9001	\$49.95	\$44.95	\$39.95

CLOCK MAKING

Make Your Own Clock Kit

This educational clock is designed to stimulate your child's curiosity about the concept of time. The brightly coloured parts are easy to assemble and most children will require little or no parental assistance.

- Includes a wind-up pendulum based mechanism
- No batteries required!
- Suitable for ages 6+
- Dimensions: 195(Dia)mm



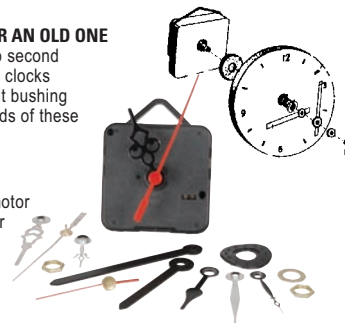
▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8996	\$14.95	\$13.45	\$11.95

Quartz Clock Movement

MAKE A CUSTOM CLOCK OR REPAIR AN OLD ONE

This is a standard hour/minute/sweep second movement found in almost all electric clocks worldwide. Very reliable. Standard nut bushing mount. We have sold 10's of thousands of these and, as far as we can tell, not one has come back.

- Very compact 56 x 56 x 15mm
- Self starting one second stepping motor
- Uses 1 x AA battery that lasts 1 year
- ±15 second/month accuracy
- Supplied with three sets of hands
- Shaft length 19mm, diam. 7.5mm
- Includes sweep second hand.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-0100	\$15.95	\$14.35	\$12.70

ROBOTIC CONSTRUCTION KITS

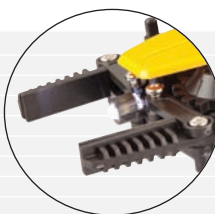
Robot Arm Kit with Controller



This arm is a must for budding robot enthusiasts and operates just like the real thing. It is capable of 5 separate movements and can easily perform complex tasks. Individual control is available for opening and closing the illuminated gripper plus control of wrist, shoulder, elbow and base rotation. The arm is supplied as a kit of parts and makes an excellent project for anyone interested in robotic construction basic electrical connections.

- Suitable for ages 12+

SPECIFICATIONS	KJ-8916
Max lift capacity	100g
Gripper opening	43mm
Maximum reach	320mm
Wrist movement	120°
Elbow movement	300°
Shoulder movement	180°
Base rotation	270°
Requires	4 x D cells
Base dimensions	225(L) x 160(W) x 40(H)mm



USB INTERFACE KIT FOR KJ-8916

Add computer control via USB to your Robotic Arm. The kit includes everything you need - interface cable, pre-built PCB, enclosure and software for controlling function. You can use a keyboard or mouse to have real-time control of the robotic arm, or you can program, edit and load individual functions and movements, just like a real industrial robot. The commands are saved just like a normal computer file to be loaded and used later.



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	Robot Arm with Controller	KJ-8916	\$69.95	\$62.95	\$55.95
	USB Interface Kit	KJ-8917	\$49.95	\$44.95	\$39.95

3 in 1 All Terrain Tracked Robot



There are a lot of parts to assemble in this kit, including the hard-wire remote control. You do, however end up with a fantastic piece of robotic gear. It is primarily a terrestrial 6 track (i.e. 3 separate tractor-crawlers each side) unit. The crawlers can be reconfigured to operate as grippers, or even as a forklift type mechanism. You will need lots of time to put this thing together, but it will be a pleasure as the 50 page instruction manual is superb with dozens of good old-fashioned line drawings, which are still the best for clarity. There is very little electronics (indeed none really) but a tremendous amount of mechanical assembly. Electric motors are included.

This kit could form the basis of a sophisticated robotic platform with the addition of feedback systems, much of which is in the Jaycar catalogue.

- It would make a fabulous gift for a very bright 13+ year old
- Batteries AA x 4 are extra
- Carton dimensions 40(W) x 30(D) x 90(L)mm



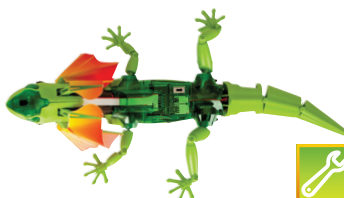
▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	3 in 1 All Terrain	KJ-8918	\$59.95	\$53.95	\$47.95

Frisled Lizard Robot Kit with IR Sensor



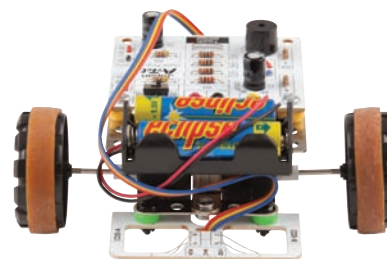
A super smart frilled lizard with artificial intelligence. It has an infrared sensor that is programmed to 'escape' or 'follow-me'. Once the infrared sensor is activated in the 'escape' mode the robot will automatically act shocked by spreading its frill, dropping its jaw, illuminates its bicolour LED eyes and will scamper away from you until it reaches a safe place. If the infrared sensor is switched to the 'follow-me' mode using the 2 way function switch, then the robot will assess danger by bluffing the attacker (unfurling and shaking its frill). When the robot does not sense danger it will proceed to follow you like a pet lizard.

- Interactive artificial intelligence (AI)
- Two funway modes
- Infrared sensor
- LED illuminated eyes
- Requires 4 x AAA batteries
- Dimensions: 370mm long
- Suitable for ages 10+



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	Frisled Lizard Robot Kit	KJ-8968	\$49.95	\$44.95	\$39.95

PC Programmable Line Tracer Kit



An educational introduction to the world of robotics and programming. Assemble the kit and you are able to use it in two main ways, programming mode or line tracing mode. With the supplied software you are able to program instructions into the robot to navigate its way across the floor. In line tracing mode, simply draw a line on some paper with a thick black marker and the robot will follow the course. It accomplishes this with two optical sensors, somewhat similar to a common garden bug.

- Assembly time: 2 hours
- Requires: Box cutters, Phillips head screwdriver, long nose pliers (TH-1887)
- Requires 2 x AA batteries
- Software is compatible with Windows XP, Vista, and Windows 7 (Vista users may need to run the software in WinXP Service pack 2 compatibility mode)
- Recommended for ages 12+
- Dimensions: 120(L) x 64(W) x 55(H)mm



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	Line Tracer Kit	KJ-8906	\$44.95	\$40.45	\$35.95

ROBOTIC CONSTRUCTION KITS (CONTINUED)

Gyro Robot - 7 Experiments

Learn about Gyroscopes and how they are used in the real world. The included colour instruction manual has LEGO® like instructions, making each of the seven projects very easy to build:

- Robo Gyro
- Gyro Compass
- Gyrorector
- Segway
- Rope Walker
- Balance Game
- Flight Simulator
- Requires 3 x AAA batteries
- Suitable for ages: 7+
- Gyro Robot Dimensions:
100(W) x 150(H) x 100(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8957	\$59.95	\$53.95	\$47.95

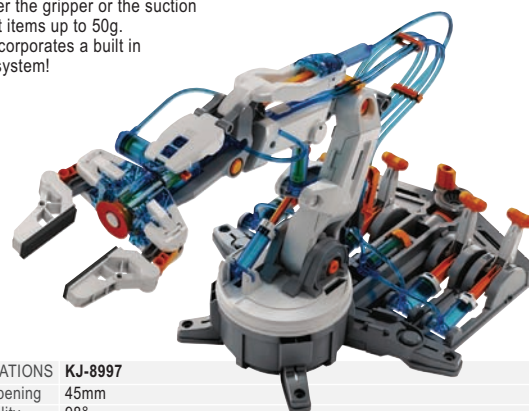
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Hydraulic Robot Arm Kit

This Robot arm has no motors and does not require any batteries as it relies on hydraulics to do all the work! Use it to command 6 axis of varied movement.

- Use either the gripper or the suction cup to lift items up to 50g.
- It also incorporates a built in braking system!



SPECIFICATIONS KJ-8997

Gripper Opening	45mm
Wrist Mobility	98°
Elbow Range	44°
Base Rotation	270°
Shoulder Motion	45°
Vertical Reach	400mm
Horizontal Reach	300mm
Base Diameter	100mm
Arm Length	260mm
Shoulder Height	190mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8997	\$59.95	\$53.95	\$47.95

ELECTRONIC & ELECTRICAL PROJECTS FOR KIDS

Principles of Electric Current Experiment Kit

A series of experiments with instructions to learn the common principles of electric current and magnetism. Check the magnetic poles of each coil with the compass, use some paper clips, the magnet and enamelled wire to create a spinning motor, or check the flow of current in the circuit by switching the battery thus inverting the current and magnetic field.



- Assembly time: 30 minutes
- Requires 2 x D batteries, scissors, and tape
- Suitable for ages 8+
- Dimensions: 99(L) x 70(W) x 45(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8901	\$12.95	\$11.35	\$10.35

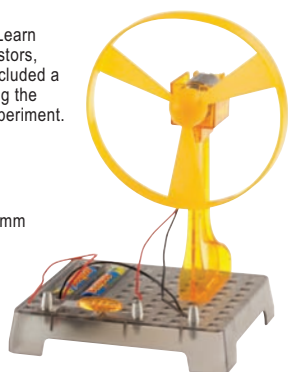
12 in 1 Electrical Experiment Kit

12 different experiments to construct that demonstrate various electronic principles. Learn about static electricity, electric motors, resistors, diodes, lights, solar power and more. Kit included a manual with excellent information describing the theory and history associated with each experiment.

- Assembly time for each experiment: Approximately 10 mins
- Requires 2 x AA batteries
- Suitable for ages 8+
- Base dimensions: 120(L) x 99(W) x 23(H)mm

Activities:

- Static Electricity
- Conductors and insulators
- Make a fan
- Resistor
- Diode
- Make a light
- Make a Morse code machine
- Light control alarm
- Make a bell
- Make an electromagnet
- Make a motor
- Solar power cell



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8919	\$27.95	\$24.95	\$22.35

Snap-On Projects & Kits

These kits allow children 6 years and older to learn about electronics whilst having fun. All of the brightly coloured parts simply snap together without any need for screws or soldering. The parts can be easily taken apart to be reused for other experiments over and over again.

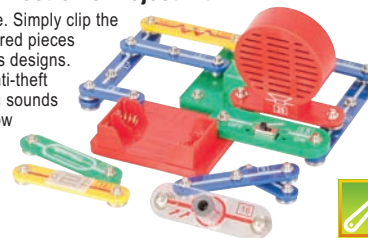
- Suitable for ages 6+
- No tools or soldering required
- Powered by AA batteries (Sold separately)
- Include coloured instruction manuals



Burglar Alarm Snap-on Electronic Project Kit

Create burglar alarms and more. Simply clip the clearly marked and bright coloured pieces together to learn various circuits designs. Some of the projects include anti-theft alarm that fires themed warning sounds when circuit breaks, door/window alarm using a dry reed switch and even a rain alarm.

- Requires 2 x AA batteries

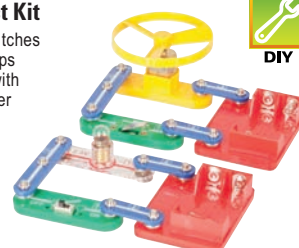


▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8974	\$15.95	\$13.95	\$12.45

8-in-1 Snap-on Electronic Project Kit

Various experiments on circuits, motors, switches and fans in both series and parallel circuit with variable controls; there is also a flying saucer project that really flies.

- Learn whilst building 14 electronic experiments
- Requires 2 x AA batteries



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8976	\$13.95	\$12.55	\$11.15

ELECTRONIC & ELECTRICAL PROJECTS FOR KIDS (CONTINUED)

Air Boat Snap-on Electronic Project Kit

Create air and water propelled boat or an electric fan with this simple snap on kit.

- Requires 2 x AA batteries



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8982	\$15.95	\$14.35	\$12.75

Air Heli-Car Snap-on Electronics Project Kit

Build a motorised helicar.

- Requires 2 x AA batteries

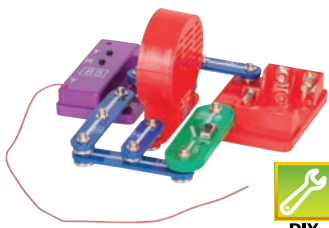


▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8980	\$15.95	\$14.35	\$12.75

FM Radio Snap-on Electronic Project Kit

Create a fully functional selectable array of devices that use circuits, switches, electric motors, LEDs and more.

- Requires 2 x AA batteries



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8978	\$16.95	\$15.25	\$13.55

Electronic Project Snap-on Kit with 80 Experiments

Features 80 projects which demonstrate various theories of electronics. A great educational tool for primary age school students that will stimulate their neural pathways as they read and construct an array of devices that use circuits, switches, electric motors, LEDs and more. Some of the projects include magnets or switch controlled electric fans, switch controlled LEDs, switching multi-directional electric motor, sound effect machine that will output machine gun fire, police car siren and much more.

- Learn whilst building over 80 electronic experiments
- Requires 2 x AA batteries
- Package dimensions: 265(L) x 205(W) x 35(D)mm

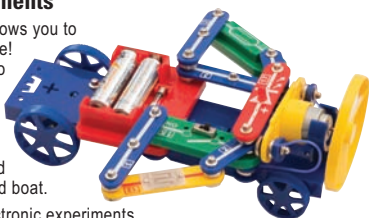


▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8970	\$24.95	\$22.45	\$19.95

Car & Boat Snap-on Electronic Project Kit with 50 Experiments

Simple snap together project kit allows you to create a car or a boat that will move! Bright colour pieces and no need to screw, or use adhesives. Great little kit for teaching simple electronic principles to eager minds. Projects include magnet controlled lamp or fan, air propelled car, and underwater or air propelled boat.

- Learn whilst building over 50 electronic experiments
- Requires 2 x AA batteries
- Suitable for ages 6+
- Package dimensions: 460(L) x 330(W) x 40(D)mm



▲	Cat.	Qty 1+	Qty 3+
	KJ-8972	\$34.95	\$31.45

34-in-1 Snap on Electronic Project Kit

This creative kit guides you through 34 different experiments. It uses a unique baseboard and snap-together system so you can explore the world of electronic circuits without any tools, soldering, or experience! Build an electric fan, a radio, a police car siren, and so much more. All using low voltage battery power, so it's safe for ages 8+. Requires 4 x AA batteries, not supplied.

- Snap together - no tools required
- Safe for 8+
- 34 different experiments
- Battery: 4 x AA Batteries (not included)
- Boxed Weight: 580g
- Boxed Dimensions: 287(L) x 272(W) x 60(H)mm

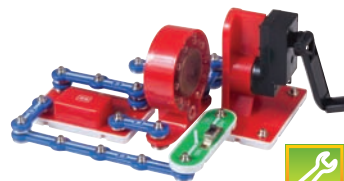


▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8983	\$39.95	\$35.95	\$31.95

24 in 1 Snap on Solar Project Kit

Build up to 34 projects including a solar coloured lamp, hand crank fan and police siren. Supplied with dynamo hand crank, solar panel and base board.

- Ages 6+.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8987	\$49.95	\$44.95	\$39.95

698-in-1 Snap on Electronic Project Kit

This massive experimenters kit guides you through 698 different experiments. Yes, that's correct - 698 different experiments! It uses a unique baseboard and snap-together system so you can explore the world of electronic circuits without any tools, soldering, or experience! Build a light sensitive alarm clock, an electronic birthday candle, an electronic organ, and so much more. All using low voltage battery power, so it's safe for ages 8+. Requires 4 x AA batteries, not supplied.

- Snap together - no tools required
- Safe for 8+
- 698 different experiments
- Battery: 4 x AA batteries (not included)
- Weight: 860g
- Dimensions: 460(L) x 301(W) x 55(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	KJ-8985	\$69.95	\$62.95	\$55.95

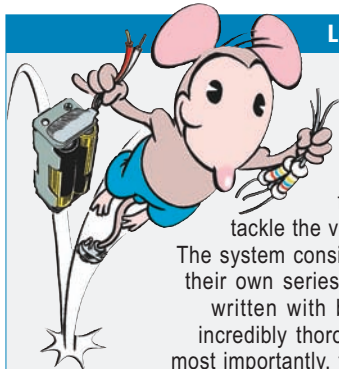
SHOW US YOUR BUILD COMPETITION

Lyla, who shops at our Jaycar Joondalup store built:



Age 11 - I was interested in this kit because it had mechanical and electrical components. It took 4 sessions of 1.5hrs to build with the help of my grandad. I had the idea to use it to play chess. After practicing with the controls, the idea was successful.





LEARNING ELECTRONICS IS FUN!!!

SHORT CIRCUITS - WHAT IT'S ALL ABOUT...

Since its inception, the Short Circuits learning system has become the preferred platform from which students can confidently tackle the various levels of modern electronics. The system consists of the Short Circuits books and their own series of construction projects. Although written with beginners in mind, the books are incredibly thorough without being intimidating and most importantly, they're written with an emphasis on FUN! All books in the series are geared towards specific levels of electronics knowledge.

Short Circuits Vol 1 acts as an introduction to electronics, absolutely NO previous knowledge of electronics is needed! Short Circuits Vol 2 assumes the reader/constructor has knowledge up to the end of Short Circuits Vol 1. It contains over 20 exciting projects and introduces the novice to soldering etc. Short Circuits Vol 3 extends the concept. After completing Volume 3, there would be no reason why the constructor

couldn't tackle virtually any construction project they desire! All books are lavishly illustrated and collectively boast over 70 exciting projects; each project logically follows from the previous one so while having enormous fun for the constructors knowledge is steadily progressing without mysterious gaps.

The operation of each project is fully described, along with full descriptions of the components you will encounter along the way. To maximise the fun and acquisition of learning, constructors are also shown how to modify and experiment with component changes and how they will change the performance of the project. Explanations of all technical terms are given in plain English - the books are a great read themselves.

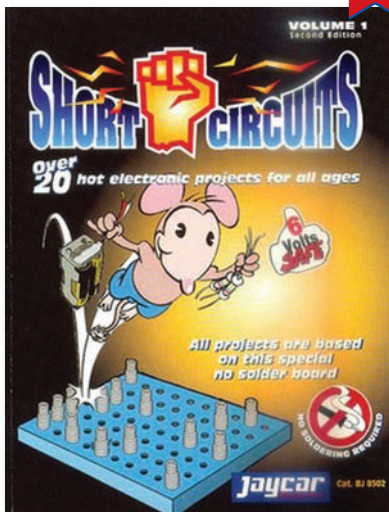


FREE DOWNLOADABLE SHORT CIRCUITS BOOKS NOW AVAILABLE FROM OUR WEBSITE WWW.JAYCAR.COM.AU/SHORT-CIRCUITS

SHORT CIRCUIT SERIES

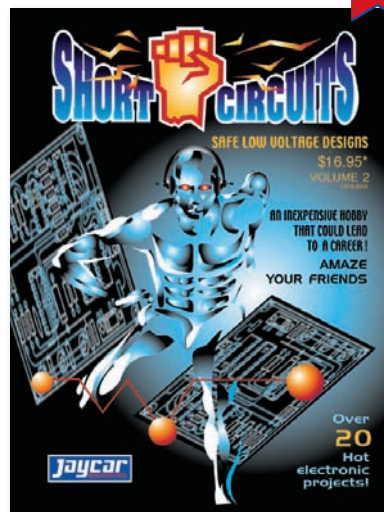
Short Circuits Volume 1 SECOND EDITION

NERD
PERKS
2x
POINTS



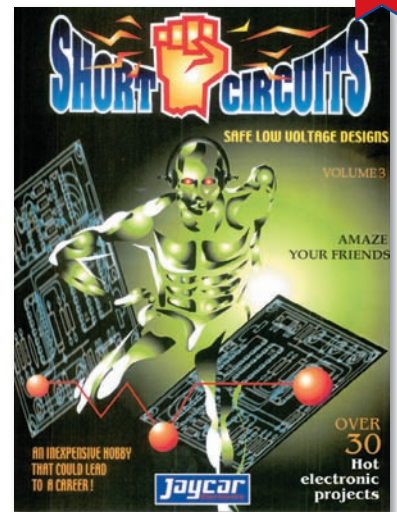
Short Circuits Volume 2

NERD
PERKS
2x
POINTS



Short Circuits Volume 3 SECOND EDITION

NERD
PERKS
2x
POINTS



Our first book in the series uses a learning system designed around a baseboard, which you use to mount their projects. All components are connected together by our exclusive spring terminals. They are extremely easy to use, and don't even require a screwdriver.

At the back of the book is a paper template for each project, which attach to the baseboard. The springs are then inserted into the baseboard according to the locations shown on the template. The template then shows EXACTLY where each component goes, making project success almost a certainty.

The projects are fun to build and, more importantly, are very relevant to today's electronics.

Each of the 20+ projects is powered from batteries and requires absolutely no soldering, making this learning system safe for ages 8+.

- Soft cover - 96 pages
- 205 x 275mm

Once constructors have the basic skills and knowledge either from a School Design and Technology course, or tackling Short Circuits Vol 1, you can now have some real fun! With this book (and associated project packs available separately - see following pages) they can make such things as a mini strobe light, police siren, mini organ, a couple of powerful radio transmitters, an FM radio - even a 'Knight Rider' scanner!!

All components are fully described and explained, along with tutorials on soldering iron and multimeter use. All projects are safe and battery powered.

- Soft cover - full colour 148 pages
- 205 x 275mm

This is the definitive electronics training manual and is far more than the weekend "fun-type", superficial approach to electronics. This volume presents more than 30 individual printed circuit board-based construction projects. Naturally, soldering techniques are discussed in detail, as is the proper use of a digital multimeter. We describe projects that take from just 20 minutes to make (such as project 2, Ding Dong Doorbell), to a fully fledged Guitar Sustain which may take several hours to complete, but will give constructors an accessory that can last a lifetime.

Each project contains a full technical description, with experimental changes to each circuit also explained. After constructors have built any or all of the described projects, there is no reason why they would not be able to successfully tackle any of the construction projects published in the electronics magazines. This book will end up giving them the knowledge and skill that will elevate them into a fully fledged constructor!

- Soft cover - full colour 128 pages
- 205 x 275mm

Short Circuits by



▲ Cat.	Qty 1+
BJ-8502	\$9.95

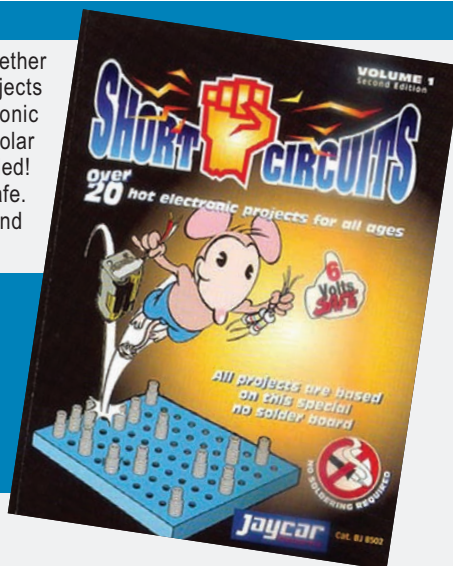
▲ Cat.	Qty 1+
BJ-8504	\$12.95

▲ Cat.	Qty 1+
BJ-8505	\$14.95

SHORT CIRCUITS VOLUME 1 - SECOND EDITION

With Short Circuits Volume 1, we give the option of buying the book on its own, or together with the accompanying kit that contains the components for each of the 20-odd projects described in the book. Some of the exciting projects include a Police Siren, Electronic Organ, Sound Effects Unit, Light Chaser and a Solar Powered Radio (an inexpensive solar panel is optional and available separately). Of course, many more projects are included! Remember, no prior knowledge of electronics is needed and the projects are totally safe. This volume will teach constructors everything they need to get started in electronics and is suitable for ages 8+. Kits contain small parts.

- Circuit diagrams included for each project
- Safe 6 volt system
- Techtalk discusses circuit operation and is written in a clear, easy to understand language
- Component layout on the special breadboard is clearly illustrated for each project
- Fun characters introduce each project, explaining the projects use

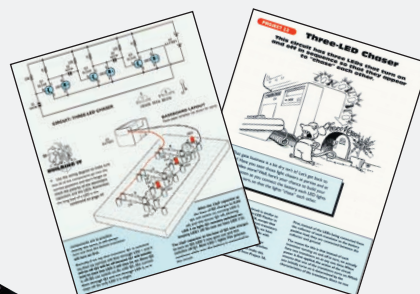


SOME OF THE EXCITING PROJECTS THAT YOU CAN BUILD FROM THIS BOOK INCLUDE:

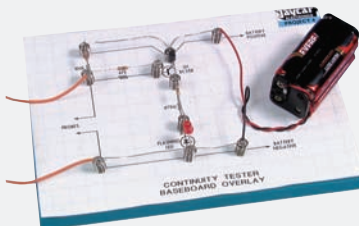
- Short circuit tester
- Magic Eye light alarm
- Police siren
- Electronic organ
- Sound effects unit
- Light chaser
- Solar powered radio
- 3 types of transistor amps
- Computer type circuits
- And many many more

FREE downloadable Short Circuits Books
now available from our website
www.jaycar.com.au/short-circuits

- Book: Cat. BJ-8502, \$9.95
- 96 Pages - Full Colour
- 205 x 275mm

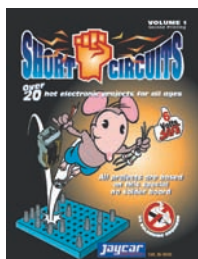


No prior knowledge of electronics needed



Short Circuits Book

This full colour 96 page book, which measures 205mm x 275mm is lavishly illustrated with over 100 drawings and diagrams. Each project features components which are "state of the art". The projects are fun to build but perhaps more importantly, are relevant to the electronics scene in the new millennium. It is a great read in itself and far superior to cheap alternatives.



SECOND EDITION

Cat.	Qty 1+
BJ-8502	\$9.95



Short Circuits Project

The complete kit of parts available separately. This includes plastic baseboard, spring connectors and all components needed to complete every project in the book. No instructions are supplied with this kit as they come in the book which is available separately.

- Additional Hookup wire can be purchased (WH-3025)
- Optional Solar Cell Power Supply for project #16 is extra Cat ZM-9020 (batteries are also extra)
- 6VDC (4 X AA)



Cat.	Qty 1+	Qty 3+
KJ-8504	\$34.95	\$31.45

Short Circuits Book & Project

Apart from the book, we supply the baseboard, plenty of spring terminals and ALL the components required to build every project in the book, INCLUDING the bonus projects!

- Additional Hookup wire can be purchased (WH-3025)
- Optional Solar Cell Power Supply for project #16 is extra Cat ZM-9020 (batteries are also extra)
- 6VDC (4 X AA)



Cat.	Qty 1+	Qty 3+
KJ-8502	\$39.95	\$35.90

REVIEWED IN ELECTRONICS AUSTRALIA MAY 2000

"It's all very well done, and I'm not surprised that the Short Circuits book and matching kit of parts have proved very popular with schools and colleges, as well as beginning hobbyists. Together they provide an excellent way for newcomers to

'dip their toes' into the wonders of electronics, in an enjoyable and hassle-free way, and of course it has all been designed and published right here in Australia - a credit to all concerned."

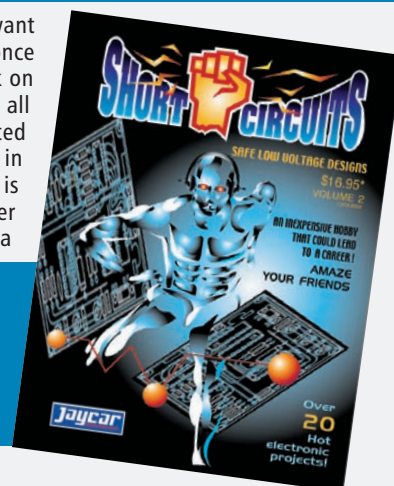
SHORT CIRCUITS VOLUME 2

Once constructors have mastered the art of assembling a circuit with springs they will want to tackle projects that are more complex. The benefit of spring termination falls away once they get into projects that have over, say, 20 parts. In addition to this, projects that work on radio frequency, or RF for short, don't like springs as they start to act like little antennae all over the place! So it's time to graduate to the heart of modern electronics - the printed circuit board. This simple device fulfils the function of mounting board & circuit wiring in one. The critical element of success in printed circuit board - or PCB for short - assembly is good soldering. Soldering is not for 8 year olds but its fine if they are older or are under adult supervision. In Short Circuits II we teach the reader how to solder. We teach you a lot more as well:



A suitable 9V battery for all projects is our SB-2423 on page 63

- How to use a Multimeter**
- What tools will be needed.
- What sort of workspace is needed.
- How the circuit works (Tech talk).
- What to do next.
- Making the circuit work in the real world.



- Book: Cat. BJ-8504, \$12.95
- 148 Pages - Full Colour
- 205 x 275mm

Short circuits is a learning system

A key part of the Short Circuits learning system is that the mind is stimulated into learning electronics by building exciting projects and HAVING FUN AT THE SAME TIME. Constructors will get a real "buzz" from the exciting projects offered - 22 in all. These projects have useful functions in the "real world" and they may choose to keep them for a long time because they are so useful. For example, constructors can make a Bionic Ear amplifier for a grandparent. Listed on the following pages are the projects in the book. They have all been designed by professional engineers and tested to work reliably. Maybe one day the constructor will be an engineer, designing projects for other people.

- Full colour - 148 pages
- 205 x 275mm

FREE downloadable Short Circuits Books
now available from our website
www.jaycar.com.au/short-circuits

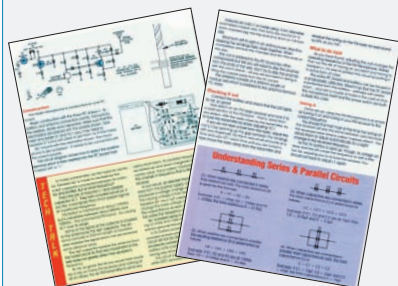
Note: Project packs do not include instructions. Constructors can purchase the book, buy a set of instructions for each project separately or download the book as a PDF for free from our website www.jaycar.com.au/short-circuits



SHORT CIRCUITS VOLUME 3 - SECOND EDITION

Like our Volumes 1 & 2 book, Short Circuits Volume 3 is sold independently to each of the 30-odd projects. Some of the projects constructors will build include a Guitar Sustain Unit, a Universal Timer, Car Alarm, Two Lamp Flasher plus many more! There's even a project that demonstrates how constructors can use your computer to interface to the realworld via a computer's parallel port. Building the projects described in Volume 3 will provide constructors with the confidence needed to tackle more complex projects, such as those described in the various electronics hobby magazines.

- Step by step instructions show you how to assemble each project
- Techtalk explains the operation of each circuit in detail, to help constructors gain a thorough knowledge of the "Building Blocks" used in circuit design
- "What To Do Next" shows constructors how to modify or further improve your project
- Basic circuit theory is provided to increase constructors level of understanding



Note: Project packs do not include instructions. Constructors can purchase the book, buy a set of instructions for each project separately or download the book as a PDF for free from our website www.jaycar.com.au/short-circuits

FREE downloadable Short Circuits Books
available from our website
www.jaycar.com.au/short-circuits



- Book: Cat. BJ-8505, \$14.95
- 128 Pages - Full Colour
- 205 x 275mm



RELATED PRODUCTS



CUTTERS

P215



PLIERS

P215



SCREWDRIVER SET

P213



SOLDERING IRON

P176



LOW COST DMM

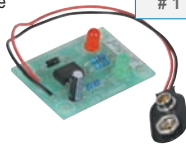
P197

SHORT CIRCUITS 2 PROJECTS

SC2 Project - Red/Green Flasher

It flashes two LEDs (light emitting diodes) - one red and the other green - alternately, a bit like the light on a police car. A great way to learn how a 555 Timer IC works.

- PCB & all parts supplied
- Requires 9V battery
- Instructions NOT included. See KJ-8201 for our full colour project book BJ-8504.



Project
1

▲	Cat.	Qty 1+	Qty 3+
PCB: 43 x 30mm	KJ-8200	\$8.95	\$8.05
Instructions	KJ-8201	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC2 Project - Countdown Timer

This neat project enables you to dial a time you want to elapse before you want something to happen, say the exposure of a camera shutter or an electrically operated door to stay open. At the end of the timed period (seconds to many minutes) a relay is energized which can switch something on or off. PCB and all parts supplied, including relay.

- Requires 9V battery.
- Instructions NOT included. See KJ-8203 for our full colour project book BJ-8504



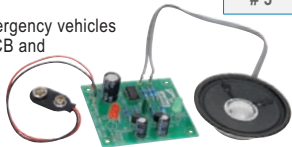
Project
2

▲	Cat.	Qty 1+	Qty 3+
PCB: 61 x 47mm	KJ-8202	\$14.95	\$13.35
Instructions	KJ-8203	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC2 Project - Hee-Haw Siren with Flashing Light

This project will make the noise made by emergency vehicles when they are trying to get through traffic. PCB and all parts supplied including flashing LED.

- Requires 9V battery.
- Instructions NOT included. See KJ-8205 for our full colour project book BJ-8504



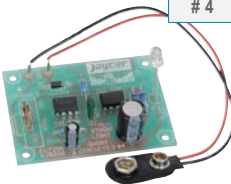
Project
3

▲	Cat.	Qty 1+	Qty 3+
PCB: 57 x 51mm	KJ-8204	\$11.95	\$10.45
Instructions	KJ-8205	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC2 Project - Mini Strobe Light

No, this unit won't fill a disco with blinding white light. Those things are dangerous and run straight off 240V. This one runs off a 9V battery and gives a surprisingly intense white light especially in darkness. Uses state-of-the-art LED. PCB and parts including LED supplied.

- Requires 9V battery.
- Instructions NOT included. See KJ-8207 for our full colour project book BJ-8504.



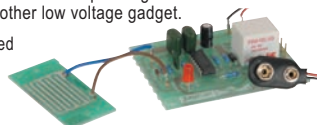
Project
4

▲	Cat.	Qty 1+	Qty 3+
PCB: 61 x 45mm	KJ-8206	\$19.95	\$17.95
Instructions	KJ-8207	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC2 Project - Touch Switch

This project allows you to turn things on or off simply by touching a small sensor pad with your finger. This could include operating an alarm, water pump, hi-fi speakers, or any other low voltage gadget.

- PCBs & all parts including the relay supplied
- Requires 9V battery
- Instructions NOT included. See KJ-8209 for our full colour project book BJ-8504



Project
5

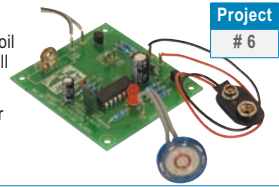
▲	Cat.	Qty 1+	Qty 3+
PCB: 75 x 26mm	KJ-8208	\$15.95	\$13.95
Instructions	KJ-8209	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

Note: Project packs do not include instructions. Constructors can purchase the book, buy a set of instructions for each project separately or download the book as a PDF for free from our website www.jaycar.com.au/short-circuits

SC2 Project - Drought Alarm

Well, not really a big drought. This will test the soil moisture of a favourite pot plant and an alarm will sound if the soil gets too dry.

- Instructions NOT included. See KJ-8211 for our full colour project book BJ-8504
- PCB, speaker & components
- Requires 9V battery



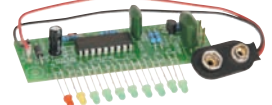
Project
6

▲	Cat.	Qty 1+	Qty 3+
PCB: 63 x 57mm	KJ-8210	\$15.95	\$13.95
Instructions	KJ-8211	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Audio Level Display

Make your own fancy volume level display you see on DJ mixing desks where the columns of light dance up and down with the music. Connect it to the output of your CD, tape player or radio. Build two of them for displays on your stereo hi-fi system.

- PCB and all parts supplied
- Requires 9V battery (not included)
- Instructions NOT included. See KJ-8213 for our full colour project book BJ-8504



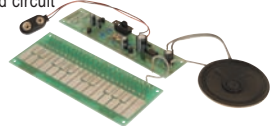
Project
7

▲	Cat.	Qty 1+	Qty 3+
PCB: 75 x 26mm	KJ-8212	\$15.95	\$13.95
Instructions	KJ-8213	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC2 Project - Electronic Organ

You can play simple tunes easily once you have built this project! The organ keyboard is actually part of the printed circuit board. It even has vibrato for extra realism. Includes PCB and all board components.

- Requires 9V battery.
- Instructions NOT included. See KJ-8215 for our full colour project book BJ-8504



Project
8

▲	Cat.	Qty 1+	Qty 3+
PCB: 133 x 31mm, 133 x 51mm	KJ-8214	\$24.95	\$22.45
Instructions	KJ-8215	\$2.50	
RECOMMENDED BOX - UB1	HB-6011	\$4.45 ea	

SC2 Project - No Brainer Amplifier

This amp is so easy to build, it's a no brainer! It will, however, give a powerful output to bring your MP3 player or sound card alive! Speaker supplied. Two required for stereo. PCB and all relevant parts included.

- Requires 9V battery.
- Instructions NOT included. See KJ-8217 for our full colour project book BJ-8504



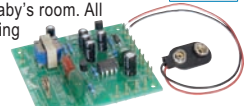
Project
9

▲	Cat.	Qty 1+	Qty 3+
PCB: 64 x 57mm	KJ-8216	\$15.95	\$13.95
Instructions	KJ-8217	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Beam Me Up Scotty Simple Intercom

Enables you to talk (i.e. not shout) between parts of a house, or a house and a garage. You can even leave it on to monitor a baby's room. All parts supplied including PCB and 6-metres of connecting wire. Requires 9V battery.

- Instructions NOT included. See KJ-8219 for our full colour project book BJ-8504



Project
10

▲	Cat.	Qty 1+	Qty 3+
PCB: 63 x 57mm	KJ-8218	\$29.95	\$26.95
Instructions	KJ-8219	\$2.50	
RECOMMEND BOX UB3 X 2	HB-6013	\$3.95 ea	

SC2 Project - Skeet Shoot Game

Here's a fun way to test your hand-eye coordination. The game sends a burst-of-light 'skeet' up along a string of ten LEDs, try to 'hit' it by pressing the FIRE button at the same time as it reaches the red LED.

- Instructions NOT included. See KJ-8221 for our full colour project book BJ-8504
- PCB, LEDs and components
- Requires 9V battery*



Project
11

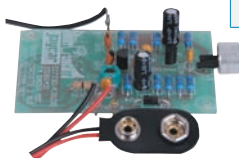
▲	Cat.	Qty 1+	Qty 3+
PCB: 107 x 57mm	KJ-8220	\$17.95	\$15.95
Instructions	KJ-8221	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SHORT CIRCUITS 2 PROJECTS (CONTINUED)

SC2 Project - Simple FM Bug

Small portable FM microphone. Works surprisingly well. Use it as a baby minder/monitor as well. PCB and all parts supplied.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8231 for individual instructions or full colour project book BJ-8504



Project
12

	Cat.	Qty 1+	Qty 3+
PCB: 59 x 41mm	KJ-8230	\$14.95	\$13.35
Instructions	KJ-8231	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Metronome

This neat little metronome does everything that a traditional metronome does. It produces an adjustable 'tick' sound to help you play your music at just the right tempo. It also flashes a LED once per bar, to help you get the music's rhythm right as well.

- PCB, speaker and all parts supplied including knobs.
- Requires 9V battery
- Instructions NOT included.
- See KJ-8233 for individual instructions or full colour project book BJ-8504



Project
13

	Cat.	Qty 1+	Qty 3+
PCB: 82 x 82mm	KJ-8232	\$19.95	\$17.95
Instructions	KJ-8233	\$2.50	
RECOMMENDED BOX - UB1	HB-6011	\$4.45 ea	

SC2 Project - Jiminy! What's That Cricket Noise?

This fun project makes the distinct sound of a cricket when triggered by a hidden microphone. Someone walks into a room, says something and the next thing this loud cricket starts to chirp! Hours of fun. PCB and all other parts including microphone supplied.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8225 for individual instructions or full colour project book BJ-8504



Project
14

	Cat.	Qty 1+	Qty 3+
PCB: 61 x 45mm	KJ-8224	\$14.95	\$13.35
Instructions	KJ-8225	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Bionic Ear

This project enables you to listen to a conversation (or a bird in a tree, etc) beyond what you would normally hear. It uses the principle of a directional microphone. PCB and parts supplied. A plastic bowl or similar is required for the reflector.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8227 for individual instructions or full colour project book BJ-8504



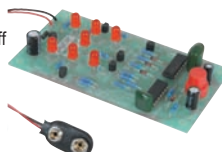
Project
15

	Cat.	Qty 1+	Qty 3+
PCB: 63 x 57mm	KJ-8226	\$17.95	\$15.95
Instructions	KJ-8227	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Casino! Electronic Dice

Well dice is really plural and this is just one dice a die. At the press of a button roll 6 light emitting diodes flash briefly and only one stays lit, representing a number between 1 and 6. Truly, truly random and never rolls off the table! PCB and all parts supplied.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8223 for individual instructions or full colour project book BJ-8504



Project
16

	Cat.	Qty 1+	Qty 3+
PCB: 108 x 51mm	KJ-8222	\$15.95	\$13.95
Instructions	KJ-8223	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Sound Like a Dalek

This project will change your voice into that metallic sounding robot voice so familiar in the space adventure movies. PCB and parts supplied. Connect it to the no brainer amp and get really scary!

- Requires 9V battery
- Instructions NOT included.
- See KJ-8229 for individual instructions or full colour project book BJ-8504



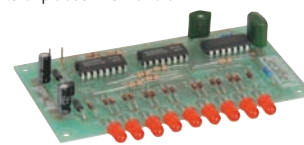
Project
17

	Cat.	Qty 1+	Qty 3+
PCB: 102 x 57mm	KJ-8228	\$23.95	\$21.35
Instructions	KJ-8229	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Knight Rider Light Scanner

Now you can make the light scanner that goes on the bonnet of that famous car. Looks fantastic in all sorts of places! PCB and all parts supplied.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8237 for individual instructions or full colour project book BJ-8504



Project
18

	Cat.	Qty 1+	Qty 3+
PCB: 102 x 55mm	KJ-8236	\$19.95	\$17.95
Instructions	KJ-8237	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC2 Project - Event Counter - 0 to 999

This project demonstrates how 3-digit counters work and can be used for real-world counting jobs, like counting laps on a slot car set, etc. An excellent 'hands on' introduction to electronics.

- PCB and all parts supplied
- Requires 9V battery
- Instructions NOT included.
- See KJ-8235 for instructions or full colour project book BJ-8504



Project
19

	Cat.	Qty 1+	Qty 3+
PCB: 127 x 76mm	KJ-8234	\$27.95	\$24.95
Instructions	KJ-8235	\$2.50	
RECOMMENDED BOX - UB1	HB-6011	\$4.45 ea	

SC2 Project - FM Radio with Electronic Tuning

This is a true state-of-the-art 88-108MHz FM radio with electronic station tuning and powerful amplifier included! It has a voltage regulated power supply and works really well. Your friends won't believe you built it. PCB and all board parts supplied.

- Requires 9V battery.
- Instructions NOT included.
- See KJ-8239 for individual instructions or full colour project book BJ-8504



Project
20

	Cat.	Qty 1+	Qty 3+
PCB: 108 x 51mm	KJ-8238	\$34.95	\$31.45
Instructions	KJ-8239	\$2.50	
RECOMMENDED BOX	HB-6032	\$7.95 ea	

SC2 Project - Three Stage FM Transmitter

So stable it could be used as a small radio station. The audience will be limited to the backyard as there are rules about such things.

- A microphone is included.
- Instructions included in kit.



Project
21

	Cat.	Qty 1+	Qty 3+
PCB: 70 x 10mm	KJ-8750	\$19.95	\$17.95
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

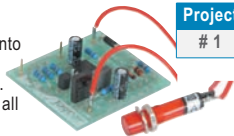
Note: Project packs do not include instructions. Constructors can purchase the book, buy a set of instructions for each project separately or download the book as a PDF for free from our website www.jaycar.com.au/short-circuits



SHORT CIRCUITS 3 PROJECTS

SC3 Project - Dasher Flasher for Cars

A really low cost way to deter thieves from breaking into your car. This lamp flasher mounts on your car dashboard and starts flashing when the ignition is off. Looks like the real thing. Kit includes PCB, lamp and all components.



Project
1

	Cat.	Qty 1+	Qty 3+
PCB: 47 x 41mm	KJ-8050	\$11.95	\$10.45
Instructions	KJ-8051	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC3 Project - Ding Dong Door Bell

Another useful little kit that generates the sound of a classic Ding Dong door bell. Just the thing for your front door. Kit includes PCB, speaker and all components. 12VDC power required.



Project
2

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8052	\$14.95	\$13.45
Instructions	KJ-8053	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Electronic Eye

Install this kit to monitor traffic on a path or through a doorway. When a person or object breaks the beam the loudspeaker will sound. Kit includes PCB, LDR, speaker and all components. 12VDC power required.



Project
3

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 61mm	KJ-8054	\$14.95	\$13.35
Instructions	KJ-8055	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Simple FM Alarm

Track moving objects, find the dog when it runs away or even recover your stolen goods using an FM radio. This kit transmits a tone over the FM band so that you can track it down using an FM radio. Kit includes PCB, 9V battery and all electronic components. A fun & useful project.



Project
4

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8056	\$14.95	\$13.35
Instructions	KJ-8057	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Infrared Remote Link

This can be used as a remote on/off or momentary switch.

- Kit includes PCBs, 9V battery and all electronic components.
- Receiver requires 12VDC power



Project
5

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8058	\$29.95	\$26.95
Instructions	KJ-8059	\$2.50	
RECOMMEND BOX UB3 X 2	HB-6013	\$3.95 ea	

SC3 Project - Simple Intruder Alarm

This simple design features a normally open and normally closed input, 40 second siren duration and triggered LED indication.

- Kit includes PCB, buzzer & electronic components
- 12VDC power required



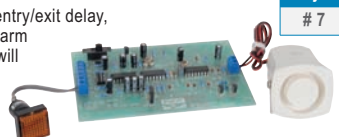
Project
6

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8060	\$15.95	\$13.95
Instructions	KJ-8061	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Screamer Car Alarm

A more sophisticated alarm including entry/exit delay, flashing deterrent light, soft warning alarm and deafening internal siren. Thieves will make a hasty retreat!

- Kit includes PCB, siren and electronic components



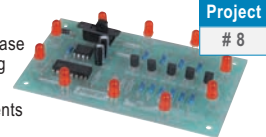
Project
7

	Cat.	Qty 1+	Qty 3+
PCB: 132 x 88mm	KJ-8062	\$34.95	\$30.95
Instructions	KJ-8063	\$2.50	
RECOMMENDED BOX - UB2	HB-6012	\$6.95 ea	

SC3 Project - Light Chase

Dazzling display using 10 LEDs that appear to chase each other. Build for a shop, theatre or advertising display.

- Kit includes PCB, LEDs and electronic components
- 12VDC power required



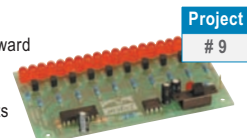
Project
8

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8064	\$13.95	\$12.45
Instructions	KJ-8065	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Light Scanner / Chaser

An impressive display using 20 LEDs that chase forward and backward - just like scanners seen in space movies.

- Kit includes PCB, LEDs & all electronic components
- 12VDC power required



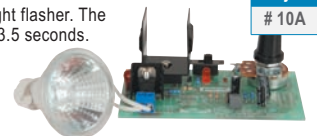
Project
9

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8066	\$16.95	\$14.95
Instructions	KJ-8067	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Really Bright Flasher

Attract attention with this bright halogen light flasher. The flash rate can be adjusted between 0.5 to 3.5 seconds.

- Kit includes PCB, 12V halogen lamp with base and all electronic components.
- 12VAC power required - use MP-3044



Project
10A

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8068	\$26.95	\$23.95
Instructions	KJ-8069	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Two Lamp Flasher

Alternate flashing halogen lamps with an adjustable flash rate between 1 to 4 seconds.

- Kit includes PCB, two halogen lamps with bases and all electronic components.
- 12VAC required - use MP-3044



Project
10B

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8070	\$34.95	\$30.95
Instructions	KJ-8071	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - The Champ Amplifier

A cheap and handy amplifier that can improve low-level signal sources so they can be heard on headphones or a speaker.

- Kit includes PCB, volume potentiometer and all electronic components.
- 12VDC power required



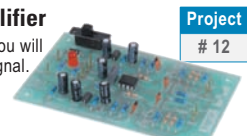
Project
11

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8072	\$17.95	\$15.95
Instructions	KJ-8073	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Universal Stereo Preamplifier

If the input signal to your amplifier is not sufficient you will need a preamplifier such as this one to boost the signal.

- Kit includes PCB and all electronic components.
- 12VDC power required



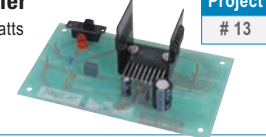
Project
12

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8074	\$14.95	\$13.35
Instructions	KJ-8075	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - High Power 12V Amplifier

This amplifier-on-a-chip can deliver about 13.5-watts into a 4-ohm speaker. That's quite loud!

- Kit includes PCB, amplifier IC, heatsink and all electronic components.
- Speaker and 12VDC power required



Project
13

	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8076	\$26.95	\$23.95
Instructions	KJ-8077	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SHORT CIRCUITS 3 PROJECTS (CONTINUED)

SC3 Project - Simple FM Microphone

This FM transmitter has many possible uses including baby room monitor, wireless microphone or spy bug. It can be picked up on any FM radio.

- Kit includes PCB, electret microphone, 9V battery and electronic components.



Project
14

▲	Cat.	Qty 1+	Qty 3+
PCB: 48 x 42mm	KJ-8078	\$12.95	\$11.35
Instructions	KJ-8079	\$2.50	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

SC3 Project - Mini-mitter FM Transmitter

Transmit stereo audio from your tape deck or CD player to any FM radio elsewhere in your house. You could even tune in on a portable walkabout radio.

- Kit supplied with PCB, 1 x AA battery and electronic components.



Project
15

▲	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8114	\$34.95	\$31.45
Instructions	KJ-8115	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Low-cost Intercom System

A low-cost method of communicating between two rooms. The remote unit is hands free so it's also great as a baby monitor.

- Kit includes PCB, speakers and electronic components.
- 12VDC required.



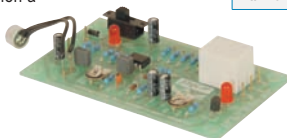
Project
16

▲	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8080	\$17.95	\$15.95
Instructions	KJ-8081	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - VOX - Sound Switch

This sound-activated switch closes a relay when a loud-enough sound is heard. It switches off when the sound stops. Ideal for radio transmitters or surveillance applications.

- Kit includes PCB, relay, electret mic & electronic components.
- 12VDC required.



Project
18

▲	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8084	\$15.95	\$13.95
Instructions	KJ-8085	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Train Sound FX

Authentic sounding train whistle and horn sound effects for your model railway.

- Kit includes PCB, speaker and electronic components.
- 12VDC power required.



Project
19

▲	Cat.	Qty 1+	Qty 3+
PCB: 160 x 103mm	KJ-8086	\$28.95	\$25.95
Instructions	KJ-8087	\$2.50	
RECOMMENDED BOX - UB2	HB-6012	\$6.95 ea	

SC3 Project - Guitar Practice Amplifier

This low cost amplifier allows you to practice your guitar without annoying the neighbours. It has a guitar type input socket, small speaker and volume.

- Kit supplied with PCB, speaker, socket and electronic components.
- 12VDC power required.



Project
22

▲	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8092	\$17.95	\$15.95
Instructions	KJ-8093	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Guitar Sustain Unit

Add this sustain unit to your guitar to make it sound more fulfilling. Features adjustable Decay and Attack.

- Kit supplied with PCB, 6.5mm sockets and electronic components
- 12VDC power required



Project
26

▲	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8100	\$26.95	\$23.95
Instructions	KJ-8101	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Guitar Distortion Unit

Distortion is popular to many guitarists. It can make the music sound quite different. Project includes PCB, 6.5mm sockets and electrical components.

- 12VDC power required



Project
27

▲	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8102	\$17.95	\$15.95
Instructions	KJ-8103	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Regulated +12V Power Supply

Many of the Short Circuits 3 projects require 12VDC power. Using our plugpack (MP-3055), this low cost power supply is ideal to power these projects.

- Kit supplied with PCB, 12V regulator and electronic components



Project
28A

▲	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8104	\$13.95	\$12.45
Instructions	KJ-8105	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Regulated +/- 12V Power Supply

Some applications need a positive and negative supply. This circuit will supply a +12V and -12V rail.

- Kit supplied with PCB, 12V regulators and electronic components
- Requires plugpack MP-3055



Project
28B

▲	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8106	\$16.95	\$14.95
Instructions	KJ-8107	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Universal Timer

This timer is adjustable between 1-second to 3.5-minutes. An LED illuminates during the timing period and a buzzer sounds at the end.

- Kit supplied with PCB, buzzer & electronic components
- 12VDC power required



Project
29

▲	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8108	\$17.95	\$15.95
Instructions	KJ-8109	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SC3 Project - Waveform Generator

This low-cost signal generator produces adjustable square and triangular waves between 100Hz-20kHz. Ideal for testing, troubleshooting and developing circuits.

- Kit supplied with PCB and electronic components
- 12VDC power required



Project
30

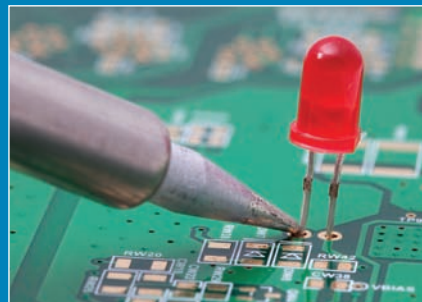
▲	Cat.	Qty 1+	Qty 3+
PCB: 105 x 60mm	KJ-8110	\$19.95	\$17.95
Instructions	KJ-8111	\$2.50	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

ELECTRONICS KITS & PROJECTS

We continue to support Silicon Chip Magazine when they produce great projects. For example, in the Jan/Feb 2017 issue we read about a new 40A DC Motor Speed Controller project. This is fantastic for robotic constructors, etc. You will find the short-form kit of this on page 305. You will also find on page 311 a kit of the improved temperature alarm, published in Silicon Chip in July 2016.

BACK CATALOGUE: We have also continued to expand our back catalogue of kits that we still have stock of at the Head Office but do not carry in stores. If you are looking for a kit of an old project, check our the information spread through the kit section to help find the project you are looking for. More info on page 312.

ARDUINO: Our range of Arduino-compatible products has expended so much it now has its own section! Included in this section is 16 Arduino based projects with full instructions and component lists. Time to get making! See page 315.



AUDIO/VIDEO

+/- 55V Power Supply	KC-5517 310
1W Audio Amplifier	KG-9032 310
50WRMS Mono Amp Module	KC-5150 309
"Champion" Preamp	KC-5531 309
Clifford the Cricket	KC-5178 308
Crazy Cricket & Freaky Frog	KC-5510 308
Crystal Radio	KV-3540 310
Digital to Analogue Converter	KC-5172 310
High-Power Class-D Amp	KC-5514 310
Miniature FM Transmitter	KE-4711 310
Mini-D 2 x 10W Class-D Amp	KC-5530 310
Super Ear	KA-1809 310
The Champ 0.5W Amplifier	KC-5152 309
The Champ" Amplifier	KC-5519 309
The Champ Preamp	KC-5166 309
Theremin Mk II	KC-5475 308
Universal Stereo Preamp	KC-5159 309

AUTOMOTIVE & MARINE

10A 12VDC Motor Controller	KC-5225 306
Car Battery Monitor	KA-1683 307
CDI Module for Motorbikes	KC-5466 306
Courtesy Light Extender	KC-5392 306
Economy Temperature Switch	KC-5381 307
GPS Datalogger/Tracker Kit	KC-5525 308
Headlight Reminder	KC-5317 306
High Energy Ignition	KC-5513 306
QuickBrake	KC-5532 307
Threshold Voltage Switch	KC-5528 306
Ultrasonic Antifouling	KC-5498 308
Universal Voltage Switch	KC-5377 307

HOUSEHOLD

433MHz Remote Switch	KC-5473 311
Flexitimer	KA-1732 311
Garbage/Recycling Reminder	KC-5518 311
Liquid Level Sensor	KG-9138 311
Temperature Switch	KG-9140 311
Tempmaster MK3 - Thermostat	KC-5529 311
Universal Temperature Alarm	KC-5533 311

POWER

12VDC Relay Card	KG-9142 304
3V - 9V DC - DC Converter	KC-5391 304
Battery Saver Kit	KC-5523 304
DC Relay Switch 12V	KC-5434 304
Deluxe Motor Speed Control	KC-5478 305
Improved Low Voltage Regulator	KC-5463 304
LED Battery Voltage Indicator	KA-1778 304
Motor Speed Controller	KC-5502 305
Motor Speed Controller 60V 40A	KC-5534 305
Motor Speed Controller II	KC-5526 305
Soft Start Kit for Power Tools	KC-5511 305
Universal Power Supply MKII	KC-5501 304
Voltage Regulator	KC-5446 304

SCI FI FX

Jacobs Ladder Mk III	KC-5520 312
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SECURITY

IR Floodlight	KG-9068 312
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TEST EQUIPMENT

Digital Multimeter Kit	KG-9250 313
Transistor Tester	KA-1119 313
USB Voltage Checker	KC-5522 313

EXPLANATION OF KIT ICONS



SIMPLE

SIMPLE - These kits are straightforward to assemble, generally built in one session and will require some basic electronics knowledge and soldering skills. Most are battery or AC adaptor powered. They may not have enclosures (i.e. "boxes") or front panels.



DETAILED

DETAILED - Similar to the above but basically bigger. They are either "short forms" of larger projects or are fully operational projects with enclosures, front panels, etc. A greater knowledge of electronics is required to understand their operation and "troubleshoot" if necessary.



COMPLEX

COMPLEX - All big projects which by their nature are complex, require several sittings to complete and may require some mechanical assembly. A good knowledge of electronics and manual dexterity is necessary to ensure success.



BATTERY INCLUDED

BATTERY INCLUDED - Batteries are included with the kit.



DANGEROUS

240V POWERED - All mains kits have this logo. We do this because we feel it is necessary that only experienced kit constructors should attempt mains powered projects. It is generally a good idea to have a competent colleague check your work before applying power.



AUTOMOTIVE KIT

AUTOMOTIVE KIT - Kit is specifically designed for automotive (which could mean motorcycle, caravan or boat as well).



15 mins

BUILD TIME - We understand that your time is valuable. We have therefore decided to provide you with an estimated build time for all our kits. Each kit includes a stopwatch logo that indicates construction time. We know that you will find this useful.



KWIK KIT - A low cost fast assembly range of kits. Kwik kits are a fully imported range that can be assembled in just one sitting, sometimes only minutes! All printed circuit boards are screened with a component overlay. The instructions assume component knowledge & the ability to follow simple schematic diagrams.



SMD COMPONENT - Kit involves soldering a SMD (Surface Mount Device). Suitable soldering iron for SMD soldering and proper handling techniques are required.



SMD COMPONENT - PRE SOLDERED - Kit supplied with surface mount component already soldered onto the PCB

GUARANTEE ON KITS

Most kits are successfully constructed with few problems. However, we recommend that if a kit builder does not have enough knowledge to diagnose faults, that the project should not be started unless assistance can be obtained. Unfortunately, one small faulty solder joint or wiring mistake can prevent a project from operating, which would take hours to locate and at normal service rates the service charge could well be more than the total cost of the kit. If you believe that you may have difficulty in

building a kit (which is simply a complete set of separate parts made up to a list provided by the major electronics magazines) and you cannot get assistance from a friend, we suggest you return the kit to us in its original condition for a refund under our satisfaction guarantee. Unfortunately, kits cannot be replaced under our satisfaction guarantee once construction has been commenced. However, should you find any faulty parts (only), we will gladly replace them under warranty.

POWER KITS

12VDC Relay Card

Add a relay output to your equipment.

This kit will close a relay's contacts with as little as 5mA to trigger the circuit. Literally any kit you see on these pages that uses an LED as a trip-condition indicator, can be used with this nifty project. Use the relay to sound buzzers, switch on lights, operate solenoids, trigger alarms, etc.

- Operation: common ground - output LED to ground
- Kit includes Kwik Kit PCB, relay plus electronic components.
- LED cathode must be connected to ground.
- PCB: 45 x 17mm.



▲	Cat.	Qty 1+	Qty 5+
KIT	KG-9142	\$12.95	\$11.35

LED Battery Voltage Indicator

Refer: Electronics Australia Sept 1995

Quick battery condition indication.

This tiny circuit measures just 25mm x 25mm and will provide power indication and low voltage indication using a bi-colour LED, and can be used in just about any piece of battery operated equipment. The circuit is suitable for equipment powered from about 6-30VDC. With a simple circuit change, the bi-colour LED will produce a red glow to indicate that the voltage has EXCEEDED a preset value.

- PCB, bi-colour LED and components
- 6-10VDC 3-8mA
- PCB: 25 x 24mm



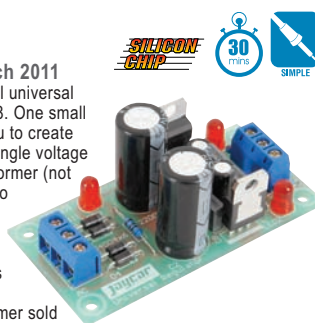
▲	Cat.	Qty 1+	Qty 5+
KIT	KA-1778	\$12.95	\$11.35
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

Universal +/- 15VDC 1A Power Supply Regulator

Refer: Silicon Chip Magazine March 2011

This is an upgraded version of the original universal power supply kit published in August 1988. One small board and a handful of parts will allow you to create either a regulated $\pm 15V$ rail or $+15VDC$ single voltage from a single winding or centre tap transformer (not included). Substitute different regulators to those supplied and you can alter the output voltage to your requirements. Upgrades in this design include improved parts layout and terminal blocks for inputs and outputs. Kit includes PCB and all components for 15 volt versions, transformer sold separately.

- PCB: 72 x 30mm



Power Supply Options:

- $\pm 15V$ rails from 15V AC plug pack (MP-3059) or transformer (MM-2002)
- $\pm 15V$ rails from 30V AC centre tapped transformer (MM-2007)
- $+15VDC$ from a single or centre tap transformer.
- Different voltages using 78xx and 79xx series regulators (not included)

▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5501	\$17.95	\$15.95
TRANSFORMER TO SUIT	MM-2002	\$11.95 ea	
TRANSFORMER TO SUIT	MM-2007	\$8.95 ea	
PLUGPACK TO SUIT	MP-3059	\$29.95 ea	

3V to 9V DC to DC Converter

Refer: Silicon Chip March 2004.

9V batteries are a great source of portable power, but let's face it - they don't last long if you want more than a few milliamps, and they are not real cheap either. This great little converter allows you to use regular Ni-Cd or Ni-MH 1.2V cells, or Alkaline 1.5V cells for 9V applications. Using low cost, high capacity rechargeable cells, the kit will pay for itself in no-time! You can use any 1.2-1.5V cells you desire. Imagine the extra capacity you would have using two 900mAh D cells in replacement of a low capacity 9V cell. Kit supplied with PCB, and all electronic components.

- PCB: 59 x 29mm



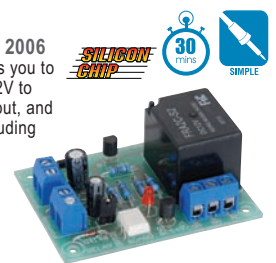
▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5391	\$18.95	\$16.95
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

DC Relay Switch

Refer: Silicon Chip Magazine November 2006

An extremely useful and versatile kit that enables you to use a tiny trigger current - as low as 400 μA at 12V to switch up to 30A at 50VDC. It has an isolated input, and is suitable for a variety of triggering options, including an AC or oscillating signal. It also has a relay-on LED indicator.

- PCB, relay and components.
- 12VDC 150mA.
- PCB: 46 x 61mm



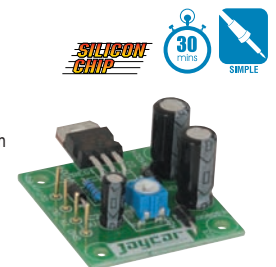
▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5434	\$19.95	\$17.70
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

1.3V to 22VDC 1A Voltage Regulator

Refer: Silicon Chip Magazine May 2007

This handy voltage regulator can provide up to 1,000mA at any voltage from 1.3 to 22VDC. Ideal for experimental projects or as a mini bench power supply. Kit supplied with PCB and all electronic components.

- Heatsink may be required depending on output current
- PCB: 38 x 35mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5446	\$19.95	\$17.70
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

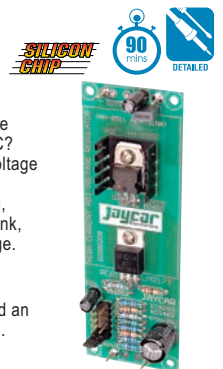
3V, 5V, 6V, 9V, 12V or 15V 4A Improved Low Voltage Regulator

Refer: Silicon Chip Magazine May 2008

Need to operate a CD, DVD or MP3 player from the cigarette lighter socket in your car? Or perhaps run some powered speakers from the power supply inside your PC? The odds are you'll need this little adaptor to step the voltage down. It has a push-on jumper shunt to select one of six common output voltages 3V, 5V, 6V, 9V, 12V or 15V and, when used with an appropriate input voltage and heat sink, can deliver up to four amps at the selected output voltage. Kit includes PCB and all specified components.

Please note that to ensure trouble free 4 amp output, a heatsink with a thermal resistance of 1.4°C per watt, and an input voltage 3VDC above the output voltage is required.

- PCB: 108 x 37mm



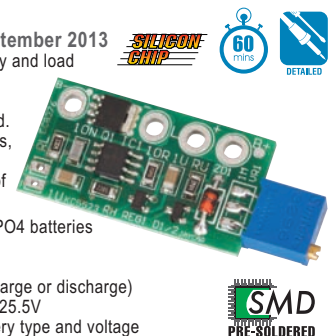
▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5463	\$19.95	\$17.70

Battery Saver Kit for Rechargeable Lithium & SLA Batteries

Refer: Silicon Chip Magazine September 2013

This tiny circuit fits in between the battery and load and cuts off the power when the battery becomes flat to prevent the battery over-discharging and becoming damaged. Suitable for use with cordless power tools, emergency lights, small to medium UPS (up to about 300VA) and a wide variety of other devices.

- Suits most SLA, Li-ion, Li-Po and LiFePO4 batteries between 6 to 24V
- Uses very little power (<5 μA)
- Handles 20A continuous, 30A peak (Charge or discharge)
- Cut-off voltage adjustable from 5.25 to 25.5V
- 0.3 - 2V hysteresis, depending on battery type and voltage
- Small PCB to fit in small spaces (38 x 18.5mm)
- Battery can be recharged once cut-out has engaged (maximum 1.5A)



There is also provision for connecting an LED or external buzzer (not included) Supplied with double sided, soldermasked and screen-printed PCB with SMDs pre-soldered*, voltage setting diodes and resistors, and components.

PCB size: 34 x 18.5mm

- Note: We've pre-soldered all of the surface mount components to save you time and frustration, apart from the three voltage setting resistors.

▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5523	\$29.95	\$26.95

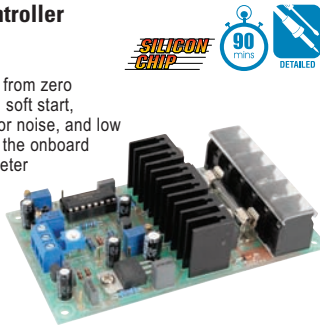
POWER KITS (CONTINUED)

12/24VDC 20A Motor Speed Controller

Refer: Silicon Chip Magazine June 2011

Control the speed of 12 or 24VDC motors from zero to full power, up to 20A. Features optional soft start, adjustable pulse frequency to reduce motor noise, and low battery protection. The speed is set using the onboard trimpot, or by using an external potentiometer (available separately).

- Supplied with solder masked PCB with overlay and all onboard electronic components
- Optional 10K external potentiometer: use RP-3510
- PCB: 106 x 60mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5502	\$43.95	\$38.45
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

12-48V 40A DC Motor Speed Controller Kit

Refer: Silicon Chip Jan/Feb 2017

Control the speed of DC motors from zero to full power. Designed to provide good speed regulation as it monitors the motor back-EMF.

- Operation up to 60V at currents up to 40A
- High or low side switching
- Throttle by potentiometer (included) or hall effect sensor (not supplied)
- Soft start at power up
- Emergency stop button option with LED indication (Switch not included)
- Lower battery shutdown with LED indication
- LED power and speed indication
- Speed regulation with motor feedback
- Min and max throttle range adjustment
- PWM frequency adjustment from 100Hz to 1kHz (typical)



Note: Full form kit shown

Short form kit includes 2 x double sided, solder masked and screen printed PCBs, 3rd optional MOSFET, pre-programmed microcontroller, binding posts and all specified electronic components for use on 12, 24, 36 and 48V batteries at current up to 30A.

For 40A current output you will require inline fuse holder SZ-2065 and 40A 5AG fuse SF-1974. For suitable diecast enclosure use HB-5064

PCB size: 107 x 82mm (Controller), 111 x 85mm (Power)

▲	Cat.	Qty 1+	Qty 5+
SHORT-FORM KIT	KC-5534	\$129.00	\$116.00

Soft Start Kit for Power Tools

Refer: Silicon Chip Magazine July 2012

This kit stops that dangerous

kick-back when you first power up an electric saw, router or other mains-powered hand tool. Place it in line with the power tool's mains power cord and when you squeeze the power tool's trigger it will slowly spin up and be at full power after about a second. This soft start process can help prevent damage to the job your working on, and to yourself when kick-back torque jerks the power tool out of your hand. Kit supplied with PCB, screen printed case, 2m power cord and specified electronic components.

- 240VAC
- Minimum load power: 100W
- Maximum load current: 10A
- PCB: 81 x 59mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5511	\$55.00	\$49.45

240V 10A Deluxe Motor Speed Controller

Refer: Silicon Chip Magazine May 2009

Another motor speed controller? This one is a little bit different and offers boutique performance in the world of speed controllers. While the simpler circuit of our other motor controller kit (KC-5477) will control a motor's speed fairly well, it can't provide maximum speed as the output voltage is limited to about 160VAC maximum. It also doesn't provide great speed regulation and torque at low speeds. The deluxe kit addresses all these issues and provides full speed control from near zero to maximum RPM, good speed regulation under load, very smooth low speed operation and is rated for devices up to 2300W. It also has soft-start to eliminate the "kick" from larger power tools and has interference suppression filtering, fuse protection and over-current protection with limiting.

This kit really is the duck's guts for motor speed control. The case has the tricky cutouts pre-machined, but a little bit of extra drilling is required to complete the project.

- Overlay PCB and all components.
- Machined case included
- PCB: 112 x 142mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5478	\$119.00	\$106.95

240V 10A Motor Speed Controller Kit with Soft Start

Refer: Silicon Chip Magazine Feb/Mar 2014

A significant improvement on our successful KC-5478 10A Motor Controller Kit. Designed for controlling the speed of power tools such as electric drills, lawn edgers, circular saws, routers or any other appliance with a universal (brush-type) motor, rated up to 10A. The new design is easier to build, has a smoother control, more "grunt" at low speed, features soft start to avoid dangerous kick-back, and improved overload protection. The case has the tricky cut-outs pre-machined, but a little bit of fine tuning may be required to complete the project. Kit includes screen printed machined case, double-sided PCB, GPO, programmed micro and electronic components.

- Extremely smooth and precise motor speed control
- Speed can be controlled from zero to maximum
- Superb speed regulation under load
- Adjustable speed regulation with feedback control
- Excellent low-speed motor operation
- 2300W (10A) rating
- Cycle-by-cycle current overload protection
- Over-current limiting
- Soft starting
- NTC Thermistor for initial surge current limiting
- Fused protection
- Rugged case with interference suppression included
- For 230VAC brush (universal) motors
- Rating: 10A, 230VAC
- Speed adjustment: Zero to motor's maximum
- PWM frequency: 980Hz
- Cycle-by-cycle current limiting: 23A peak
- Average current limiting: 15A
- Soft start rate: Up to 2.54s from zero to full speed
- NTC thermistor: 10-ohm at 20°C, <0.1-ohm@10A

Note: Not suitable for inducted or shaded-pole motors



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5526	\$159.00	\$142.95

POWER & LIGHTING KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
Battery Zapper MkII Add-on	SC	05/06	KC-5428	\$39.95
Bass Blazer Bar Graph Display	SC	02/01	KC-5305	\$34.95
Luxeon LED Star Module Driver	SC	05/04	KC-5389	\$19.95

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 312.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
12VDC Emergency Lighting Controller	SC	01/08	KC-5456	\$39.95
Basketball Scoreboard & Console - Wireless	SC	03/05	KC-5408	\$499.00
Basketball Scoreboard Extra Scoreboard - Wireless	SC	03/05	KC-5409	\$349.00

KIT BACK CATALOGUE

AUTOMOTIVE KITS

Capacitor Discharge Ignition for Motor Bikes

Refer: Silicon Chip Magazine May 2008
Many small petrol engines fitted to modern motor bikes use a capacitor discharge ignition (CDI) to improve performance and enhance reliability. The only downside of this is that if the CDI ignition module fails, a replacement can be very expensive. This kit will replace many failed factory units and is designed for engines with separate generator & trigger coils and which generate a positive high voltage to charge the capacitor before firing. Most CDI ignitions operate this way, but there are variations. Luckily, this CDI module uses cheap and readily available parts and is worth a try before shelling out lots of hard-earned cash for a genuine replacement module. Supplied with solder masked PCB and overlay, case and components. Some mounting hardware required.

• PCB: 45 x 64mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5466	\$24.95	\$22.35

Courtesy Interior Light Delay

Refer: Silicon Chip Magazine June 2004.
Many modern cars feature a time delay on the interior light. It still allows you time to buckle up and get organised before the light dims and finally goes out. This kit provides that feature for cars which don't already provide it. It has a soft fade out after a set time has elapsed, and features much simpler universal wiring than previous models we have had.

- Kit supplied with PCB with overlay, and all electronic components.
- Suitable for circuits switching ground or +12V or 24VDC (car & truck with negative chassis.)
- PCB: 78 x 46mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5392	\$22.95	\$20.35
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

Threshold Voltage Switch

Refer: Silicon Chip Magazine July 2014
A simple but versatile device to switch a relay when its input voltage crosses a threshold. Use it to prevent a lead-acid battery from being over-charged or in automotive applications to trigger an extra fuel pump under high boost, anti-lag waste-gate shutoff for example. A PCB mount 12V DPDT relay is supplied but the circuit caters for other types depending on the voltage and current you want to switch. In conjunction with a standard battery charger and suitable resistor, the device can also be used to trickle charge a lead-acid battery. Kit supplied short-form with double sided, solder-masked and screen-printed PCB, onboard relay and electronic components. Cabling and case not included.

- 5 - 24VDC operation
- Adjustable trigger threshold
- Trigger on high or low voltage
- Output state indicator LEDs
- Multiple relay options (Kit supplied with onboard relay)
- PCB size: 107 x 61mm

Optional relays:
24V 12V DPDT PCB Relay: SY-4053 30A 12V SPST Horn Relay: SY-4040
30A 12V SPDT Horn Relay: SY-4070 60A 12V SPDT Horn Relay: SY-4074



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5528	\$39.95	\$35.95

10A 12VDC Motor Speed Controller

Refer: Silicon Chip Magazine June, 1997
Use this kit for controlling 12V DC motors in cars such as fuel injection pumps, water/air intercoolers and water injection on performance cars. You can also use it for headlight dimming and for running 12V DC motors in 24V vehicles. The circuit incorporates a soft start feature, which is used to reduce inrush currents, particularly if the kit is to control 12V incandescent lamps. As presented, the kit will control loads up to 10 amps, although the addition of an extra MOSFET transistor will double that capacity to an amazing 20 amps.

- Kit includes PCB plus all electronic components to build the 10A version
- Extra MOSFET available separately, ZT2450
- PCB: 69 x 51mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5225	\$27.95	\$24.95
OPTIONAL MOSFET TO SUIT	ZT-2450	\$9.95 ea	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

Headlight Reminder For Cars

Refer: Silicon Chip Magazine August 2001
Nothing is more frustrating than getting into your car early in the morning, only to discover that you had left your headlights on the night before, running your car's battery flat. Features include a modulated alarm, ignition and lights monitoring, optional door switch detection, time-out alarm and a short delay before the alarm sounds. Build and install this hassle-saving kit and enjoy a feature in your car that many luxury vehicle owners have long taken for granted. Kit includes quality solder masked PCB with overlay, case with screen printed lid and all electronic components. 12VDC.

• PCB: 78 x 49mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5317	\$27.95	\$24.95

High Energy Ignition Kit for Cars

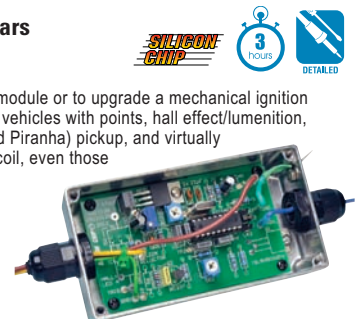
Refer: Silicon Chip Magazine November & December 2012
Use this kit to replace a failed ignition module or to upgrade a mechanical ignition system when restoring a vehicle. Suits vehicles with points, hall effect/lumenition, reluctor and optical sensors (Crane and Piranha) pickup, and virtually any ignition system that uses a single coil, even those controlled by an engine management computer.

- Trigger invert option
- Adjustable dwell time
- Option for output or follow input
- Tachometer output
- Adjustable debounce period
- Dwell compensation for battery voltage
- Simplified design using ignition IGBT to switch the coil
- Coil switch-off with no trigger signal

A spark self-test feature allows the dwell to be easily adjusted to suit the coil in use. Kit supplied with silk-screened PCB, diecast enclosure (111 x 60 x 30mm), pre-programmed PIC and PCB mount components for all four trigger/pickup options.

Requires: Miscellaneous mounting hardware specific to the individual installation.

Note: Hall-effect and optical pick-ups not included.



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5513	\$55.00	\$49.45

AUTOMOTIVE KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
12V LED - PCB for Festoon 31mm (Interior Light)	SC	03/03	KC-5354	\$4.95
12V LED - PCB for Festoon 41mm (Interior Light)	SC	03/03	KC-5355	\$4.95
AV Booster/ Repeater Amplifier	SC	04/03	KC-5350	\$69.95
Car Air Conditioner Controller	SC	01/07	KC-5437	\$24.95
Car Turbo Timer with Case - PIC Based	SC	08/07	KC-5451	\$29.95
Delta Throttle Timer	SC Book		KC-5373	\$24.95
Digital Pulse Adjuster	SC Book		KC-5384	\$49.95
Driving Light Protector	SC	09/02	KC-5337	\$19.95
Engine Immobiliser MK II	SC	12/98	KC-5255	\$19.95
Frequency Switch	SC Book		KC-5378	\$25.95

KIT BACK CATALOGUE

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 312.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
G-Force Meter	SC		KC-5504	\$34.95
Independent Electronic Boost Controller	SC Book		KC-5387	\$49.95
Intelligent Turbo timer	SC Book		KC-5383	\$29.95
LED Duty Cycle Meter for Fuel Injected Cars	SC Book		KC-5375	\$37.95
Marine Engine Speed Equaliser	SC	11/09	KC-5488	\$27.95
PCB for 31mm Festoon Style (Interior Light) Kit	SC	03/03	KC-5354	\$4.95
PCB for 41mm Festoon Style (Interior Light) Kit	SC	03/03	KC-5355	\$4.95
Quick Brake - Emergency Light Trigger	SC Book		KC-5373	\$24.95
Turn Your Car Into A Volvo	SC	08/99	KC-5273	\$39.95
Voltage Monitor	SC	05/06	KC-5424	\$22.95

AUTOMOTIVE KITS (CONTINUED)

Universal Voltage Switch

Refer: High Performance Electronic Projects for Cars - Silicon Chip Magazine Publications.

This is a universal module which can be adapted to suit a range of different applications. It will trip a relay when a preset voltage is reached. It can be configured to trip with a rising or falling voltage, so it is suitable for a wide variety of voltage outputting devices eg., throttle position sensor, air flow sensor, EGO sensor. It also features adjustable hysteresis (the difference between trigger on/off voltage), making it extremely versatile. You could use it to trigger an extra fuel pump under high boost, anti-lag wastegate shutoff, and much more. Kit supplied with PCB, and all electronic components.

• PCB: 105 x 60mm.



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5377	\$24.95	\$22.45
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

Car Battery Monitor

Refer: Electronics Australia May 1987
Don't get caught with a flat battery! This simple electronic voltmeter lets you monitor the condition of your car's battery so you can act before getting stranded. 10 round 5mm LEDs tell you your battery's condition.

• Kit includes PC board and all components.

• PCB: 62 x 39mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KA-1683	\$19.95	\$17.70
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

Kit Constructors Manual

A must for amateur constructors. Contains much useful information for the more experienced. Huge amounts of information on construction and identification of parts.

• 8 pages.

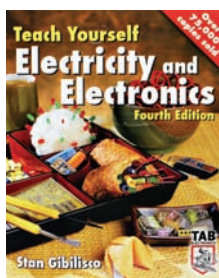


▲	Cat.	Qty 1+
	BI-8200	\$2.00

Teach Yourself Electricity and Electronics - Fourth Edition

Comprehensive, straightforward and well-written, this book covers everything from atomic structure to DC & AC theory, semi-conductors, integrated circuits, digital electronics & communications. Each chapter has a quiz at the end so you can test your knowledge. One of the best entry-level self-teaching textbooks on electronics we've ever seen.

• Softcover. 734 pages with illustrations
• 232 x 190mm.



▲	Cat.	Qty 1+
	BM-7108	\$64.95

Economy Adjustable Temperature Switch

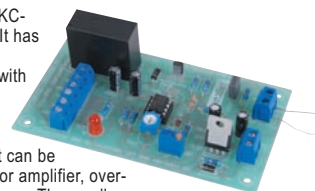
Ref: High Performance Electronic Projects for Cars - Silicon Chip Publications.

If you don't need the display, or the

huge operational range of the High Range

Adjustable Temperature Switch with LCD (KC-5376), then this unit is a great alternative. It has an adjustable switching temperature up to 245°C, and it can be configured to trigger with rising or falling temperature. It has adjustable hysteresis (the difference between on/off temp), which is a great feature many other units do not possess. It can be used to operate cooling fans on a radiator or amplifier, over-temp warning lights or alarms, and much more. The small temperature sensor reacts quickly to temp changes. Kit supplied with PCB, NTC Thermistor, and all electronic components.

• PCB: 105 x 60mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5381	\$35.95	\$31.45
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

Quickbrake Brake Light Warning Kit

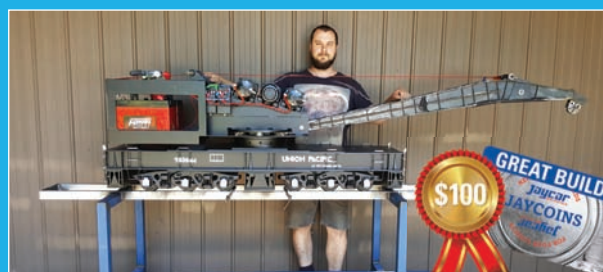
Refer: Silicon Chip Magazine January 2016

Over one quarter of vehicle accidents in the Sydney area are of the rear-end variety. The Quickbrake reduces this risk by detecting when your foot quickly lifts off the accelerator pedal and activating your brake lights before your foot has even touched the brake pedal. This can increase apparent reaction time by up to 1 second, and at 100kph this equates to about 14 metres between you and the other car!

• Suitable for 12V vehicle systems
• Short form kit includes PCB and components only
• Requires wiring and UB3 enclosure
• PCB: 106.5 x 60mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5532	\$39.95	\$35.90



SHOW US YOUR BUILD COMPETITION

Daniel, who shops at our Jaycar Ringwood store built:

This is my 1:8 scale model of a 250 ton railroad crane. It's taken a year of building so far, is fully operational and can lift close to 1 ton. I relied on Jaycar KC-5225 kit and YG-2738 motor to control the left and right rotation. Soon it will be Bluetooth controlled from my phone using Arduino.

COMPUTER KITS

KIT BACK CATALOGUE

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
AVR Adaptor Board for KC-5340	SC	03/06	KC-5421	\$24.95
PC Infrared Transceiver Kit	SC	12/01	KC-5323	\$14.95
PC IR Remote Control	SC	08/03	KC-5366	\$29.95

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 312.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
PIC Programmer Checkerboard	SC	02/01	KC-5307	\$74.95
Serial Programmer for DSPIC30F PIC Controller	SC	05/08	KC-5467	\$39.95
SD/MMC Card Webserver In a Box	SC	11/09	KC-5489	\$74.95

AUTOMOTIVE/MARINE KITS

GPS Data Logger/Tracker

Refer: Silicon Chip Magazine November 2013

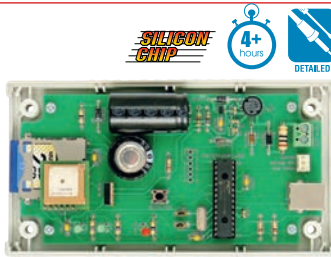
Precisely records where your car, boat or aeroplane has travelled over time, which you can playback on software such as Google Earth to map your journey. It's a great device for off-road drivers, sailors, farmers and grey nomads and can record a lifetime of travelling onto a single SD card.

- Records the route, time & date on an SD card (available separately) each time the vehicle is used
- Stored SD card data can be displayed in Google Earth or other mapping software
- Records points of interest (POI) at the press of a button*. In Google Earth, each POI marker is displayed as a yellow pin with an associated time & distance from the start
- Records in up to five formats: Google Earth KML, GPS Exchange, raw NMEA data & two Microsoft Excel compatible formats
- Can record POI locations in a spreadsheet called LOG.XLS and can record a travel diary with private & business entries in a spreadsheet called DIARY.XLS
- When diary recording is turned on, pressing the POI button during a trip means that the distance travelled (in km) is recorded in the 'Business' column of DIARY.XLS
- Powered from the vehicle's 12V battery & can be permanently wired into circuit.

Kit supplied with silk-screened PCB, enclosure (150 x 80 x 30mm) with label, pre-programmed PIC, GPS module, and electronic components.

*Power cable and push button switches for POI and travel available separately depending on your application.

The PCB components are already pre-soldered to the PCB to save you the hassle.



SMD
PRE-SOLDERED

▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5525	\$149.00	\$133.95

Ultrasonic Antifouling for Boats

Refer: Silicon Chip Magazine September/October 2010

Many of you know that you can buy imported marine growth electronic antifouling systems that cost up to \$8000. Jaycar, with Silicon Chip have developed a similar system based on this technology and information in the public domain. This project uses the same ultrasonic waveforms and virtually identical ultrasonic transducers mounted in sturdy polyurethane housings. By building yourself you save a fortune! Standard unit consists of control electronic kit and case, pre-built ultrasonic transducer, potting and gluing components and housings. The single transducer design of this kit is suitable for boats up to 10m (32ft); boats longer than about 14m will need two transducers and drivers. Basically all parts supplied in the project kit including wiring. (Price includes epoxies).

- 12VDC (Could be powered by a solar panel/wind generator)
- Suitable for power or sail
- Works with aluminium & fibreglass boats (not suitable for timber, ferro cement or fibreglass foam sandwich construction)
- Output frequency range: 19.08 - 41.66kHz in 14 bands with 200ns steps.
- Frequency sweep in each band: 12 frequencies ranging from 80Hz spacings at 20kHz to 344Hz steps at 40kHz
- Signal burst period: 600ms at 20kHz, 300ms at 40kHz (12000 cycles/ burst)
- Output drive: 250VAC
- Supply Voltage: 11.5V to 16V maximum
- Current drain: 220mA average at 12V driving a 3nF load
- PCB: 78 x 104mm

Now includes pre-built transducer. See our assembled Ultrasonic Antifouling Devices on page 479



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5498	\$269.00	\$245.00

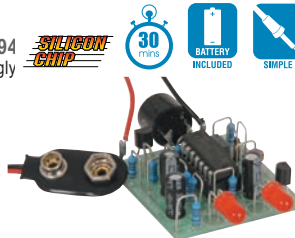
AUDIO EFFECTS KITS

Clifford The Cricket

Refer: Silicon Chip Magazine Dec 1994

Clifford hides in the dark and chirps annoyingly until a light is turned on - just like a real cricket. Clifford is created on a small PCB and has little LED insect eyes that flash as it sings. Just like a real cricket, it waits a few seconds after darkness until it begins chirping, and stops instantly when a light comes back on.

- PCB, piezo buzzer, LDR plus all electronic components supplied.
- PCB: 41 x 36mm



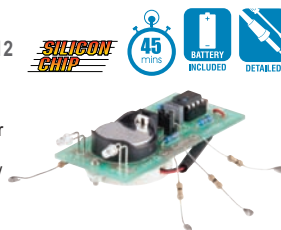
▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5178	\$17.95	\$15.95

Crazy Cricket & Freaky Frog

Refer: Silicon Chip Magazine June 2012

A fun first project for a budding electronics enthusiast. Designed to imitate the chirping noise of a cricket or gentle croaking of a frog, while keeping its location secret to annoy other family members. It activates after a short time delay in darkness and stops when disturbed by light. Both the cricket and frog modes are pre-programmed in the IC. Each time you turn it on, the alternating program runs. Kit supplied with silk screened PCB, pre-programmed PIC IC, CR2032 button cell battery & electronic components.

- PCB dimensions: 30 x 65mm



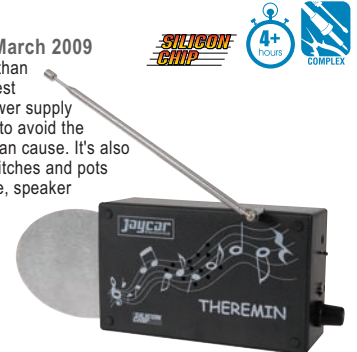
▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5510	\$22.95	\$20.35

Theremin Synthesiser MkII

Refer: Silicon Chip Magazine March 2009

The ever-popular Theremin is better than ever. It's easier to set up with extra test points for volume adjustment and power supply measurement and it now runs on AC to avoid the interference switchmode plugpacks can cause. It's also easier to build with PCB-mounted switches and pots to reduce wiring to just the hand plate, speaker and antenna and has the addition of a skew control to vary the audio tone from distorted to clean.

- Complete kit contains PCB with overlay, pre-machined case and all specified components.
- 12VAC 250mA power required.
- PCB size: 85 x 145mm



CREATE YOUR OWN WEIRD SCIENCE FICTION SOUNDS WITH THIS MODERN IMPLEMENTATION OF AN OLD IDEA.

As used in the Beach Boys classic hit "Good Vibrations". Create your own weird science fiction sounds with this modern implementation of an old idea. The Theremin synthesiser produces those familiar science fiction movie sound effects when you move your hand between a metal plate and antenna. The unit has an amazing range from piecing shrieks to low end growling sounds. The Theremin, named after its inventor Leon Theremin, is a musical instrument that uses electronic circuits to produce audible sounds, having the unusual aspect of being controlled by the player's hand movements near the two "antennas", without touching the instrument.

HOW DOES IT WORK?

As the player moves his hands, the value of capacitance between his hand and the theremin's antennas vary, changing current in the circuit, which in turn controls the sound signal that goes to the amplifier and speaker. One hand is used to control the Theremin's pitch, and the other is used to control the volume.

▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5475	\$79.95	\$71.95

AV VIDEO KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
Component Video RGB Converter	SC	05/04	KC-5388	\$49.95
RGB to Component Video Converter	SC	08/04	KC-5398	\$49.95

KIT BACK CATALOGUE

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 312.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
Video Enhancer & Y/C Separator	SC	08/04	KC-5394	\$99.95

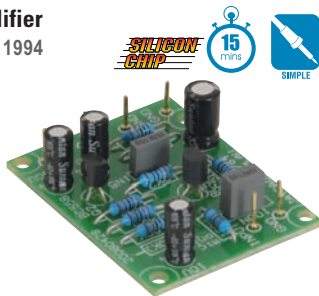
PREAMPLIFIER KITS

"Pre-Champ" Versatile Preamplifier

Refer: Silicon Chip Magazine July 1994

This tiny preamp was specifically designed to be used with the 'Champ' amplifier KC-5152. Unless you have a signal of sufficient amplitude the 'Champ' will not produce its maximum power output. The 'Pre-Champ' is the answer with a gain in excess of 40dB, which is more than enough for most applications. You can vary the gain by changing a resistor and there is even provision on the PCB for an electret microphone. Use AM-4010.

- Power requirement 6-12VDC.
- Kit includes PCB and electronic components.
- Can be battery powered.
- PCB: 46 x 36mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5166	\$9.95	\$8.75
MICROPHONE TO SUIT	AM-4010	\$2.35 ea	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

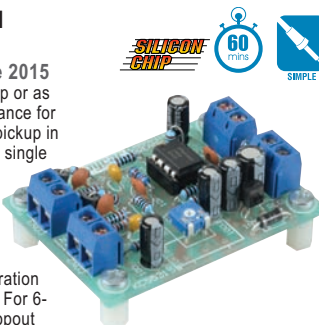
Champion Stereo/Dual Channel Preamplifier Kit

Refer: Silicon Chip Magazine June 2015

Use it as a general purpose stereo preamp or as a dual channel preamp. High input impedance for ceramic phono cartridge or piezoelectric pickup in musical instrument. Can be configured as single channel with fixed or variable gain, and works with Electret microphones. Powered from 6-9VDC (eg. 9V battery) or 12-20VDC.

Kit supplied with PCB and on-board electronic components for 12-20VDC operation (Electret mic not included, use AM-4010). For 6-9VDC operation an LP2950-05 5V low dropout regulator is required (use ZV-1645).

- PCB: 57 x 41mm



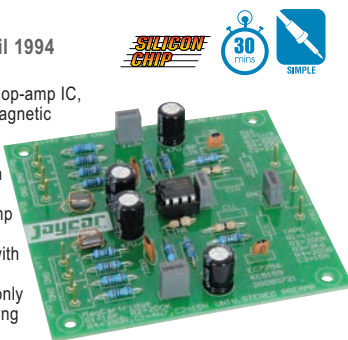
▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5531	\$16.95	\$14.95

Universal Stereo Preamplifier

Refer: Silicon Chip Magazine April 1994

Perfect for phono, tape or microphones. Based around the low noise LM833 dual op-amp IC, this preamp is designed for use with a magnetic cartridge, cassette deck or dynamic microphone. The performance of this design is far better than most preamps in many stereo amplifiers, making it a worthy replacement if your current preamp falls short of expectation. It features RIAA/IEC equalisation, and is supplied with all components to build either the phono, tape or microphone version. Measuring only 80 x 78 x 30mm, it is ideal for incorporating into existing equipment

- PCB and components
- +/- 15VDC
- Use Cat MM-2007 if power is not available in your equipment.
- PCB: 80 x 78mm.



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5159	\$18.95	\$16.95
TRANSFORMER TO SUIT	MM-2007	\$8.95 ea	
RECOMMENDED BOX - UB1	HB-6011	\$4.45 ea	

AMPLIFIER KITS

"The Champ" Audio Amplifier

Refer: Silicon Chip Magazine February 1994

This tiny module uses the LM386 audio IC, and will deliver 0.5W into 8 ohms from a 9 volt supply making it ideal for all those basic audio projects. It features variable gain, will happily run from 4-12VDC and is smaller than a 9 volt battery, allowing it to fit into the tightest of spaces.

- PCB and all electronic components included.
- PCB: 46 x 26mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5152	\$9.95	\$8.75
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

50 Watt Amplifier

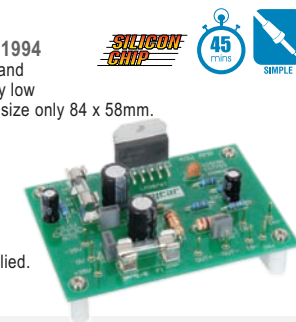
Refer: Silicon Chip Magazine March 1994

This 50 watt unit uses a single chip module and provides 50 watts RMS into 8 ohms with very low distortion and extreme quietness. PCB size only 84 x 58mm.

Power Requirements:

- +/-35VDC rails @ 80VA per module
- MT-2114 25 + 25V 160VA toroid x 1
- ZR-1314 Bridge rectifier x 1
- RE-6241 2,200/50V electro caps x 2
- Kit is supplied in short form version.
- PC Board and electronic components supplied.
- Use heatsink HH-8590.
- PCB: 84 x 58mm

SPECIFICATIONS	KC-5150
Output power	50WRMS continuous into 8 ohms
Power supply	+/- 37.5VDC
Signal-to-noise ratio	-114dB (A-weighted) -106dB (20-20kHz)
Distortion	0.002% at 40W 1kHz
IHF power output	60W @ 1kHz



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5150	\$32.95	\$29.45
BRIDGE RECTIFIER	ZR-1314	\$2.50 ea	
ELECTRO CAPS	RE-6241	\$3.25 ea	

'The Champion' Audio Amplifier Kit with Pre-Amplifier

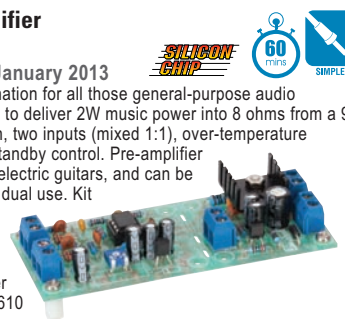
Refer: Silicon Chip Magazine January 2013

An amplifier and pre-amplifier combination for all those general-purpose audio projects. It uses the AN7511 audio IC to deliver 2W music power into 8 ohms from a 9 to 12V supply. Features low distortion, two inputs (mixed 1:1), over-temperature protection (auto-limiting), mute and standby control. Pre-amplifier is also suitable for microphones and electric guitars, and can be separated from the amplifier for individual use. Kit supplied with silk-screened PCB, heatsink and PCB mount components.

Note: Optional 10k ohm potentiometer for external volume control use RP-7610

SPECIFICATIONS	KC-5519
Operating voltage range	4 - 13.5VDC
Output power	up to 4W
Music power	3W @ 9 - 12V
Signal-to-noise ratio	65dB
Frequency Response	-2.5dB @ 20Hz, -0.2dB @ 20kHz
THD+N, 1kHz: 0.25%	
Gain	34dB for Amplifier, up to 58dB with pre-amplifier
Input Sensitivity for Amp only	52mV RMS @ 5V, 125mV RMS @ 9 - 12V
Input Sensitivity for Amp & Pre-amp	2mV RMS @ 5V, 5mV RMS @ 9 - 12V
Quiescent current	2mA (Pre-amplifier) + 30-60mA (Amplifier)
Standby current	2mA (Pre-amplifier) + 1-10uA (Amplifier)
PCB	101x41mm

▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5519	\$22.95	\$20.35



AUDIO KITS

KIT BACK CATALOGUE

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
115WRMS/8Ω, 175WRMS Power Amp Module	SC	04/96	KC-5201	\$95.95
Bass Blazer Barograph Display	SC	02/01	KC-5305	\$34.95
CDROM Controller for Audio Playback	SC	12/07	KC-5459	\$39.95
DAB+/FM Digital Radio	SC	08/10	KC-5491	\$249.00
Digital Audio Delay	SC	12/11	KC-5506	\$69.95
Guitar Mixer 4 Channel 12VDC	SC	06/07	KC-5448	\$99.00
Power Amp Module 115W RMS/8 Ohm / 175WRMS/4 Ohm	SC	04/96	KC-5201	\$95.95

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 312.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
Power Supply to suit SC-480	SC	01/03	KC-5347	\$14.95
SC-480 50W Mono Amplifier Module V1 TO-218	SC	01/03	KC-5345	\$49.95
Stereo Compressor	SC	01/12	KC-5507	\$39.95
Studio 350 - High Power Amplifier	SC	01/04	KC-5372	\$119.00
Subwoofer Controller	SC	08/07	KC-5452	\$59.95
Theremin Synthesiser - Midi	SC	04/05	KC-5410	\$159.00
Universal Speaker Protection & Muting Module	SC	07/07	KC-5450	\$34.95

AMPLIFIER KITS (CONTINUED)

1 Watt Audio Amplifier

This tiny PCB measuring only 28 x 28mm incorporates all the electronics for a 1 Watt amplifier. 4 to 12VDC operating voltage, 50mV input sensitivity, 8 ohm output and 20 to 25000Hz output frequency. Optional connection for a 10k ohm - 100k ohm logarithmic potentiometer (not included) for adjustable volume control.

- PCB and components.
- 9VDC (use MP-3146)
- PCB: 41 x 24mm



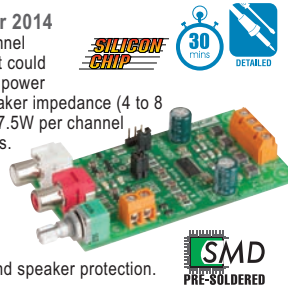
▲	Cat.	Qty 1+	Qty 5+
KIT	KG-9032	\$9.95	\$8.75
9VDC PLUGPACK TO SUIT	MP-3146	\$17.95 ea	

Mini-D 2 x 10W Class-D Amplifier

Refer: Silicon Chip Magazine September 2014

This compact amplifier can deliver 10W per channel stereo or 30W mono, and is powered by DC so it could be used for busking running of a battery. Output power depends on operating voltage (8 to 25VDC) speaker impedance (4 to 8 Ohm) used. With a 12VDC supply it can deliver 7.5W per channel into 8-ohm speakers or 2 x 15W into 4-ohm loads. Highly efficient there is no need for a heatsink!

- Up to 91% efficient
- Selectable gain
- On-board volume control
- Low-power shutdown mode
- Over-temperature, over-current, short circuit and speaker protection.
- PCB: 85 x 46mm



Supplied with double sided, solder-masked screen-printed PCB, & ALL SMD components pre-soldered to the PCB to save you soldering them yourself.

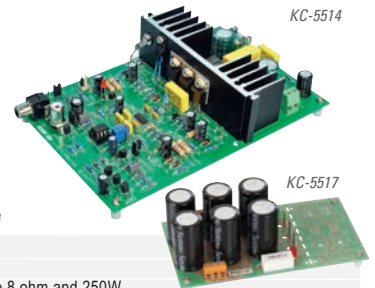
▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5530	\$49.95	\$44.90

High-Power Class-D Audio Amplifier

Refer: Silicon Chip Magazine November & December 2012

This DIY high performance amplifier boasts 250WRMS output into 4 ohms, 150W into 8 ohms and can be bridged with a second kit for 450W into 8 ohms. Not only does it output high-quality sound, it is also rugged and reliable with all sorts of protection built in. Class-D amplifiers are also far more efficient and generate much less heat than linear Class A, B and AB designs.

- High efficiency & power
- Low distortion and noise
- Bridging option for driving 8-ohm load with two modules
- Over-current protection
- Over-temperature protection
- Under-voltage switch-off
- Over-voltage switch-off
- DC offset protection
- Fault indicator
- Optional speaker protection module



SPECIFICATIONS	KC-5514
THD+N	<0.01%
Power output	up to 150W into 8 ohm and 250W into 4 ohm, depending on power supply
Efficiency	Typically 90% at full power for 8 ohm and 83% for 4 ohm
Signal-to-noise ratio	103dB with respect to full power
Input sensitivity	2VRMS (4 ohm), 2.2VRMS (8 ohm)
Frequency response	+/- 1dB, 10Hz - 10kHz
Power requirements	+/- 40 to 60VDC, 50 to 55V nominal (use KC-5517)

Kit supplied with double sided, solder masked and screen-printed PCB with SMD IC pre-soldered, heatsink, and electronic components.

- PCB dimensions: 117 x 167mm

Note: The surface-mount IC is pre-soldered to avoid frustration

▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5514	\$89.95	\$80.95
+/- 55V POWER SUPPLY	KC-5517	\$34.95	\$31.45

AUDIO KITS

The Super Ear

Refer: Electronics Australia May 1998

This kit assists people who have difficulty in hearing high audio frequencies, or for those who want to hear more than their normal unaided ear. By amplifying these high audio frequencies, not only will conversations be made clearer, you will be able to hear noises not normally heard such as insects or a watch ticking, for example. Built into a small case and powered from a 9V battery makes this kit totally portable. Use it as a hearing aid or for a fun & educational purpose.

- Kit supplied with case, machined panel, PCB, 9V battery, and all electronic components.
- Headphones required.
- Note: Not a replacement for a proper hearing aid.
- PCB: 56 x 26mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KA-1809	\$29.95	\$26.90

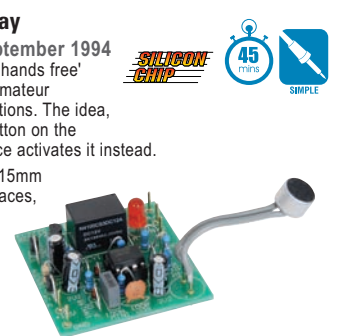
"Minivox" Voice Operated Relay

Refer: Silicon Chip Magazine September 1994

Voice operated relays are often used in 'hands free' communication such as mobile radios, amateur transceivers as well as some PA applications. The idea, of course is that instead of pushing a button on the microphone to talk, the sound of the voice activates it instead.

This tiny kit measures approx 50 x 50 x 15mm and is designed to fit into the tightest spaces, has almost no turn-on delay, and has 3 second release time.

- 12VDC @ 35mA required.
- Kit is supplied with PCB electret mic, and all specified components.
- PCB: 47 x 44mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5172	\$16.95	\$14.95
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

AV KITS - RADIO & FM KITS

Crystal Radio

A radio without batteries!

Enjoy AM broadcasting without using battery or other power sources. Ideal for entry-level students or hobbyist with little electronics experience.

- Includes circuit explanation.
- Kit supplied with screen printed PCB (81x53mm), germanium diode, pre-wound coil, earphone and all components.
- PCB: 80 x 50mm.



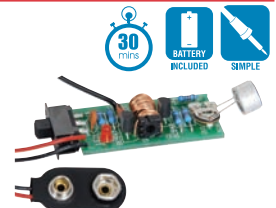
▲	Cat.	Qty 1+	Qty 5+
KIT	KV-3540	\$19.95	\$17.95

Miniature FM Transmitter

Refer: Electronics Today International December 1985

This unit is a two transistor two stage transmitter that has the benefits of being VERY COMPACT. The kit contains PCB, 9V battery and all components, and makes an ideal inexpensive beginners kit.

- PCB: 45 x 23mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KE-4711	\$14.95	\$13.45
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

AV KITS

KIT BACK CATALOGUE

RADIO/FM KITS

KIT BACK CATALOGUE

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
Annunciator with 75mm High Digits - 00 to 99	SC	12/05	KC-5420	\$39.95
AV Booster Kit	SC	04/03	KC-5350	\$69.95
AV Distribution Amplifier with S-Video - Low Cost	SC	11/01	KC-5321	\$79.95

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 312.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
Composite AV Distribution Amplifier - Low Cost	SC	11/01	KC-5320	\$69.95
100-200MHz VHF Converter	Kwik Kit		KG-9128	\$19.95

HOUSEHOLD KITS

Garbage & Recycling Reminder

Refer: Silicon Chip Magazine January 2013

Easy to build kit that reminds you when to put which bin out by flashing the corresponding brightly coloured LED. Up to four bins can be individually set to weekly, fortnightly or alternate week or fortnight cycle. LEDs will flash for up to 18 hours or when you press the clear button. Features coloured LEDs to match bin lid, disable function for any LED, easy to program, optional individual day programming, week advance facility, 15 minute advance or hold facility, powered by 3V lithium cell, and low power drain. Kit supplied with silk-screened PCB, black enclosure (83 x 54 x 31mm), label, pre-programmed PIC, battery & PCB mount components.

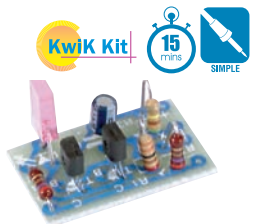
• PCB: 75 x 47mm *Limited Stock*

▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5518	\$33.95	\$29.45

Liquid Level Sensor

When two contacts are shorted by liquid, an LED will illuminate. Use in applications such as an overflow alarm and rain detector. Connect Relay Card KG-9142 for a relay output to operate lights, sirens or other warning devices.

- Project requires 9VDC.
- Kit supplied with Kwik Kit PCB and all electronic components.
- PCB: 45 x 15mm



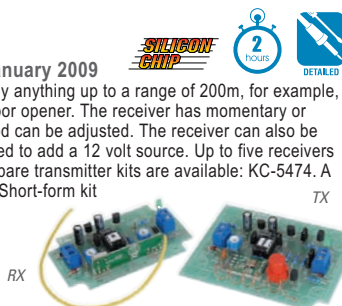
▲	Cat.	Qty 1+	Qty 5+
KIT	KG-9138	\$9.95	\$8.75
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

433MHz Remote Switch

Refer: Silicon Chip Magazine January 2009

Suitable for remote control of practically anything up to a range of 200m, for example, as a replacement for a dead garage door opener. The receiver has momentary or toggle output and the momentary period can be adjusted. The receiver can also be used to drive a 12 volt relay - you'll need to add a 12 volt source. Up to five receivers can be used in the same vicinity and spare transmitter kits are available: KC-5474. A versatile kit with endless applications. Short-form kit contains two PCBs and all specified components.

- 433MHz
- Requires case and 9 -12VDC
- Extra transmitter kit: KC-5474
- PCBs: Tx: 85 x 63mm / Rx: 79 x 48mm



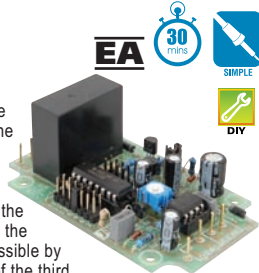
▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5473	\$47.95	\$42.95

The 'Flexitimer'

Refer: Electronics Australia March 1991

Now in it's third revision by Jaycar, the Flexitimer uses a 555 timer coupled with a binary counter to create a simple and consistent timing circuit. In the original one-shot mode the timer will count up to the set point and switch the relay once. In the additional interval mode the timer will continue switching the relay at each recurrence of the set point. The circuit can be set at 11 time points with the minimum being 7 seconds and each step doubling the time to a maximum of 2 hours. Other times are possible by changing components C1, R1, and R2. Features of the third revision include a restarting the one-shot mode from an external switch or signal, a more energy efficient design, & space on the PCB for terminal blocks (not included).

- Requires 12- 15V DC (use Cat. MP-3147 plugpack) / Optional UB5 case (HB-6015)
- PCB Dimensions: 74 x 47mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KA-1732	\$22.95	\$20.35
12VDC PLUGPACK TO SUIT	MP-3147	\$17.95 ea	
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

Temperature Switch

Ideal for turning fans or heaters on at certain temperatures.

This kit operates a relay when a preset temperature is exceeded and drops-out the relay when temperature drops. The relay included is capable of switching small currents only, so a larger relay or switching device should be employed if switching mains voltages or heavy currents. Ideal as a thermostat, ice alarm, hydroponics applications, etc. A small trimpot is used to adjust the cutout temperatures for the relay in the range of approx -30 to +150° C.

- PCB NTC thermocouple and components
- 12VDC, 100mA
- PCB: 56 x 28mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KG-9140	\$24.95	\$22.35
12VDC plugpack to suit	MP-3147	\$17.95 ea	
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

Universal Temperature Alarm Kit

Refer: Silicon Chip July 2016

Monitor the operating temperature of your fish tank, fridge/freezer, hot water system, incubator or anything else that needs a stable thermal environment. It will monitor temperatures in the range of -33° to 100° Celsius and provide an audible alarm if the temperature goes outside a pre-set range as well as switch on one of two LEDs - red for too hot, blue for too cold. The upper and lower temperature thresholds are adjusted via two trim pots and a calibration chart is included in the instructions. The circuit itself is easy to construct with no surface mount devices and is housed in a standard UB5 jiffy box.

- Power: 9-12VDC
- PCB Dimension: 78(L) x 47.6(W)mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5533	\$39.95	\$35.95
RECOMMENDED BOX - UB5	HB-6015	\$2.95 ea	

TempMaster MK3 - Electronic Thermostat

Refer: Silicon Chip Magazine August 2014

This electronic thermostat is ideal for converting a chest freezer into an energy-efficient fridge, converting a fridge into a wine cooler or controlling heaters in home-brew setups, hatcheries and fish tanks. It controls the fridge/freezer or heater directly via its power cable, so there's no need to modify its internal wiring. It can even be adapted to control 12V or 24V fridges or freezers. An improvement on our popular KC-5476 TempMaster MK2 designed in Feb 2009. It is easier to adjust, has a wider temperature range, uses less power, and virtually immune to relay chatter problems.

- Temperature range: -23 degrees C to 47 degrees C
- Low quiescent power consumption to below 45mW (1.08Wh/day)
- PCB size: 80 x 104mm

Kit supplied short-form with silk-screened PCB, 30A SPST relay, temperature sensor with clamp assembly and components. You'll need to add your own 240V GPO, fused IEC socket, cabling and case. 12V 150mA power required.

▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5529	\$39.95	\$35.90

BUY IT ON THE WEB...

Shop for all these Jaycar Electronics products on our website - and check out our latest products & offers!

HOUSEHOLD KITS

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
Door Bell Remote Control	SC	09/04	KC-5397	\$14.95
Driveway Sentry	SC	11/04	KC-5402	\$99.95
Jacob's Ladder High Voltage Display Kit	SC	09/95	KC-5191	\$27.95
Remote Control Digital Timer	SC	08/10	KC-5496	\$39.95

KIT BACK CATALOGUE

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 312.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
UHF Remote Controlled Main Switch	SC	02/08	KC-5462	\$99.95
V8 Sounding Doorbell - Short Form	SC	01/05	KC-5406	\$34.95
Water Tank Level Meter Telemetry Base Station	SC	01/08	KC-5461	\$39.95
Mains Timer Kit for Fans & Lights	SC	08/12	KC-5512	\$42.95

SCI-FI KITS

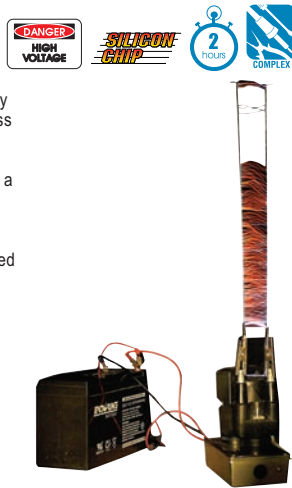
Jacob's Ladder MK3

Refer: Silicon Chip Magazine February 2013

A spectacular rising ladder of bright and noisy sparks for theatre special effects or to impress your friends. This improved circuit has even more zing and zap than it's previous design from April 2007 and requires the purchase of a VS Commodore 12V ignition coil (available from auto stores and parts recyclers). Kit supplied with silk-screened PCB, diecast enclosure (111 x 60 x 30mm), pre-programmed PIC, PCB mount components and pre-cut wire/ladder.

- Powered from a 12V 7Ah SLA or 12V car battery (Note: Battery not included).

Warning: The Jacob's Ladder Kit uses potentially dangerous voltage.



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5520	\$69.95	\$62.95

SECURITY PROJECTS

Infrared Floodlight

Let your CCD camera see in the dark! This infrared light is powered from any 12-14VDC source and uses 32 x infrared LEDs to illuminate an area of up to 5-metres (will vary with light conditions). The PCB measures 56 x 75mm and draws a current of about 300mA.

- Kit is supplied with silkscreened/ gold plated/ solder-masked PCB, 32 x Infrared LEDs and all electronic components. Use our plugpack supply, MP-3282.
- Not suitable for colour CMOS cameras.
- PCB: 74 x 55mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KG-9068	\$19.95	\$17.95
RECOMMENDED BOX - UB3	HB-6013	\$3.95 ea	

SHOW US YOUR BUILD COMPETITION

Conrad, who shops at our Jaycar Campbelltown store built:

The Van De Graaff Generator is a type of electrostatic generator. It can easily generate up to 500,000 volts! It works by collecting protons from earth, and allowing them to build up on the top dome, creating a build-up of static electricity. With the help of Jaycar's products, I was able to make it.



SILICON CHIP MAGAZINE

Get your SILICON CHIP at Jaycar

Silicon Chip is Australia's world-class magazine for the electronics enthusiast. As well as a great range of fun DIY kits, SILICON CHIP has interesting features articles and popular columns such as "Serviceman's Log" and "Circuit Notebook" etc.

Jaycar gets its stock of SILICON CHIP straight off the printing press, so we usually have it a couple of days earlier than the newsagents.

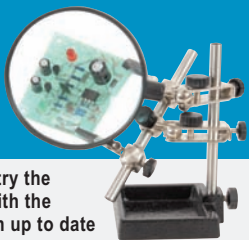
Don't forget to call in to a Jaycar store for the latest issue hot off the press.



▲	Cat.	Qty 1+	MADE IN AUSTRALIA	BOOK
	BE-5025	\$9.95		SILICON CHIP

CAN'T FIND THE KIT YOU'RE LOOKING FOR?

KIT BACK CATALOGUE



If you can't find what you're looking for, try the Jaycar Kit Back Catalogue. To keep up with the constant flow of new kits and maintain an up to date in-store line-up of projects, older and slow moving kits are returned to our central warehouse. We have included in this catalogue a number of the Kits that form our Back Catalogue. The range is divided up into sections shown at the bottom of the kit pages. In this listing is included a brief description, the reference magazine and issue date of the article, a catalogue reference number and a unit price.

Magazine Icons



Electronics Australia (EA)



Silicon Chip Magazine (SC)



Range of easy to assemble kits (no articles available) (KK)

Issue is referenced by month then year (MM/YY). If the article ran over several months only the first month is referenced.

DOZENS OF KITS LISTED ON THE BOTTOM OF MOST KIT PAGES



For the absolutely latest list refer to our website www.jaycar.com.au/kitbackcatalogue

Back catalogue kits are not normally available in Jaycar Stores; you can ONLY access information about them on our website.

Three easy ways to order these Kits:

1. Order online at www.jaycar.com.au
2. Call our Free Call Order Hotline on 1800 022 888
3. Use the order form on page 527 and fax it to us

SECURITY KITS

KIT BACK CATALOGUE

SCI-FI KITS

KIT BACK CATALOGUE

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
50 Metre IR Light Barrier	Kwik Kit		KG-9196	\$49.95
Alarm Raucous	SC	01/02	KC-5327	\$29.95
Annunciator Kit	SC	12/05	KC-5420	\$39.95
Driving Light Anti-Theft Kit	SC	09/02	KC-5337	\$19.95

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see above.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
Raucous Alarm	SC	02/02	KC-5327	\$29.95
Jacob's Ladder High Voltage Display Mk1	SC	12/95	KC-5191	\$27.95
Starship Enterprise Door Sound Simulator	SC	05/06	KC-5423	\$27.95

TEST EQUIPMENT

USB Port Voltage Checker

Refer: Silicon Chip Magazine July 2013

An easy way to test a USB port to see if it is dead, faulty or incorrectly wired to help prevent damaging a valuable USB device you plan to connect. Voltage is indicated using three LEDs. The complete project can be protected using the supplied clear heatshrink tubing. Kit supplied with double sided, soldermasked and screen-printed PCB with SMDs pre-soldered, clear heatshrink, USB connectors and components for USB 2.0 & USB 3.0.

• PCB: 44 x 17mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KC-5522	\$33.95	\$29.45

Transistor Tester

Refer: Electronics Australia September 1983

Have you ever unsoldered a suspect transistor only to find that it checks OK? Troubleshooting exercises are often hindered by this type of false alarm. You can avoid these hassles with the In-Circuit Transistor, SCR and Diode Tester. The kit does just that, test drives WITHOUT the need to unsolder them from the circuit! VERY HANDY! Kit includes a Jiffy box, battery and electronic components and panel showing truth table for device checking.

• PCB: 70 x 57mm



▲	Cat.	Qty 1+	Qty 5+
KIT	KA-1119	\$29.95	\$26.90

Digital Multimeter Kit

Learn everything there is to know about component recognition and basic electronics with this comprehensive kit. From test leads to solder, everything you need for the construction of this meter

is included together with a detailed manual. With test questions and schematic supplied in the manual, the kit can be geared to an individual or class learning environment, making it an excellent choice for first year trade apprentices. Kit includes DMM case, LCD, solder, battery, test leads, PCB, comprehensive 18 page learning manual and electronic components.

- All you'll need is a soldering iron.
- Meter dimensions: 67(W) x 123(H) x 5(D)mm



Obviously we have a HUGE range of ready to go DMMs in our Test Section on page 197

▲	Cat.	Qty 1+	Qty 5+
KIT	KG-9250	\$24.95	\$22.35

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

TEST KITS

KIT BACK CATALOGUE

SHORT CIRCUITS 3

KIT BACK CATALOGUE

Kits listed here are part of our Kit Back Catalogue. They are not normally available in stores; you can only access information about them on our website.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
LED Duty Cycle Meter for Fuel Injected Cars	SC Book		KC-5375	\$37.95
Peak-Hold Injector Adaptor	SC Book		KC-5395	\$13.95
USB Power Monitor	SC	12/12	KC-5516	\$59.95

To order visit www.jaycar.com.au, call 1800 022 888 or use the order form at the back of this catalogue. For more information see page 312.

DESCRIPTION	MAGAZINE	ISSUE	CAT.	1+
Ultrasonic Water Tank Level Indicator	SC	09/11	KC-5503	\$49.95
Short Circuits 3 #31 Computer Driven Display	SC3		KJ-8112	\$16.95

PRE-ASSEMBLED MODULES

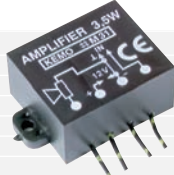
Universal Amplifier Modules - 1 Channel

3.5 WATT

Ideal as a bench-test amplifier for audio sources, or even as a mono headphone amplifier, this small audio amplifier can be operated from 4.5 V up to 12 VDC.

Use two for stereo.

SPECIFICATIONS	AA-0223 - 3.5 WATT
Output power	3.5 W (max)
Operating voltage	4.5 to 12 V
Speaker impedance	4-16 ohms
Input sensitivity	< 80mV
Frequency response	40Hz-20kHz
Dimensions	30 x 25 x 15 mm



12 WATT

Small audio amplifier module is suitable for a number of purposes and has a range of suitable input voltages and load impedances.

SPECIFICATIONS	AA-0225 - 12 WATT
Operating voltage	6V - 16V, 800mA (max)
Output power	12W (max) into 4-16 ohms
Frequency range	40Hz-20kHz
Input sensitivity	80mV
Dimensions	62 x 36 x 23mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
3.5W	AA-0223	\$24.95	\$22.45	\$19.95
12W	AA-0225	\$29.95	\$26.95	\$23.95

Mono Amplifier Module

This tiny module uses the LM386 audio IC, and will deliver 0.5W into 8 ohms from a 9V supply making it ideal for all those basic audio projects. It features variable gain, will happily run from 4-9VDC and is smaller than a 9V battery, allowing it to fit into the tightest of spaces.

SPECIFICATIONS	AA-0373
Power	4 - 9VDC
Dimensions	65(L) x 35(W) x 20(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	AA-0373	\$7.95	\$7.15	\$6.35

Universal Preamplifier Module - 1 Channel

For microphones and diverse uses. This mini-module is simply connected between a power amplifier and a weak signal source (e.g. microphone).

SPECIFICATIONS	AA-0220
Operating voltage	9 to 24VDC
Frequency response	20Hz to 20kHz
Input	2-50mV
Output	200mV - 5V
Dimensions	30 x 25 x 15mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	AA-0220	\$24.95	\$22.45	\$19.95

Multi-Voltage Regulated Adaptor Module (Stepdown)

Ideal for when you need a reliable voltage source for a portable CD player or similar battery-powered device. Another use for this adaptor is for a peripheral computer power supply to power external Blu-Ray drive, powered speakers, modems, etc. Plug its input into your PC's internal power supply cable and get selectable regulated voltage out from 3 to 15VDC*.

- Output current capability is around 1.5 amps.
- Dimensions: 63(L) x 24(Dia.)mm
- Note: *Input voltage MUST be larger than the required output voltage



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0372	\$9.95	\$8.75	\$7.75

3 Amp 24V to 12V Reducer

Many trucks and boats use 24V systems. These converters will allow you to run a reasonably sized 12V car-stereo or other devices from a 24V supply. Heatsink (not included) should be used for superior performance.

SPECIFICATIONS	AA-0266
Short-circuit protection	Thermal cutout.
Input voltage	24 to 26VDC
Output voltage	12VDC
Maximum load	3A
Dimensions	135(L) x 50(W) x 24(H)mm
Heatsink	50 x 100 x 30mm (rec. size) use Cat. HH-8572 or similar



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0266	\$29.95	\$26.95	\$23.95

PRE-ASSEMBLED MODULES (CONTINUED)

DC to DC Converter Modules

Converter modules that can step-up or step-down voltages so you can power your devices where a different power source is present. This could include powering 12VDC devices from a 6VDC motorbike battery or to run 12VDC devices from a 24VDC battery found in trucks. They feature protection against short-circuits, overload and over-heating. They will auto-switch off in the event of overheating. Compact size and all models feature mounting holes. See our website for datasheets.

Three models to choose from:

DC TO DC STEP DOWN MODULE

AA-0236

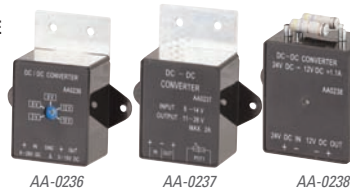
DC TO DC STEP UP MODULE

AA-0237

24VDC TO 12VDC STEP DOWN MODULE

(not user selectable)

AA-0238



SPECIFICATIONS	AA-0236	AA-0237	AA-0238
Input voltage	6-28VDC	6-14VDC	24VDC
Output voltage	3-15VDC	11-26VDC	12VDC
Max output current	1.5A	2A	1.1A
Dimensions	60(L) x 45(W) x 20(D)mm	70(L) x 60(W) x 23(D)mm	70(L) x 60(W) x 23(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
1.5A	AA-0236	\$24.95	\$22.35	\$19.70
2A	AA-0237	\$29.95	\$26.95	\$23.70
1.1A	AA-0238	\$24.95	\$22.35	\$19.70

Battery Discharge Protector

Protects your car battery from total discharge by switching off appliances such as before the battery voltage drops to an unrecoverable level. When battery voltage is re-established by recharging, it switches appliances on automatically. The interrupting voltage is adjustable from 10.4. to 13.3 VDC. Essential low-cost insurance if you have a dual battery setup in a boat, 4WD, RV or for an alternative energy system such as solar or wind power.

SPECIFICATIONS	AA-0262
Operating voltage	12VDC
Max. switching current	20A
Interrupting voltage	10.4 - 13.3VDC
Resetting voltage	approx. 0.8V (+/-0.3V) above interrupt voltage
Current consumption	< 0.7mA when OFF, < 1.6mA when ON
Dimensions	87(L) x 60(W) x 32(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0262	\$44.95	\$40.45	\$35.95

Speedo Corrector Module for Cars

When you modify your gearbox, diff ratio or change to a large circumference tyre, it may result in an inaccurate speedometer. This module alters the speedometer signal up or down from 0% to 99% of the original signal. With this improved model, the input setup selection can be automatically selected and it also features an LED indicator to show when the input signal is being received.

- Power: 12VDC
- Dimensions: 63(L) x 46(W) x 25(H)mm.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0376	\$44.95	\$40.45	\$35.95

Frequency Relay Module for Cars

It uses a standard tachometer, road speed, or many other pulse outputs to switch a relay. The switch frequency can be set to trip when it is rising or falling, and it features adjustable hysteresis (the difference between trigger on/off frequency). You could configure it to trigger water spray cooling on deceleration, shift light activation, adjustable aerodynamics based on speed, intake manifold switching and much more.

- Dimensions: 72(L) x 65(W) x 43(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0377	\$39.95	\$35.95	\$31.90

12 Volt Twilight Switch

This handy module senses the ambient light level and will switch external devices on/off at night and in the morning. The unit operates from 12VDC and its changeover contacts are rated at 25VDC @ 3A. Power consumption is only 2mA so it is ideal for automotive or battery-driven applications. Use it for garden lighting or security applications etc.

- Dimensions: 72(L) x 50(W) x 32(H)mm



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	AA-0323	\$27.95	\$24.95	\$22.35

12VDC 8A Dimmer/Motor Speed Controller

DC speed controllers are ideal for slowing down pumps and motors or dimming lights, but some use resistance circuits or rheostats which are very inefficient. The pulse width modulation (PWM) used in this controller allows you to vary the output from 0 to 100% while maintaining a very high efficiency. When used on motors this ensures full torque is available at very low speed and the motor won't shudder at start-up. Operates on any 12VDC system and capable of controlling devices rated at up to 8 amps.

- Internal circuitry is fully potted & the control potentiometer is splash proof making this suitable for marine environments and other harsh conditions.
- Dimensions: 97(L) x 46(W) x 47(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	12VDC 8A MP-3209	\$34.95	\$31.45	\$27.95

Mains Motor & Lamp Controller

This module can be used for various mains rated applications including lamp dimming, soldering iron temperature adjustment and collector or split-pole motor speed control. Features a 600W continuous and 1200W peak loading capacity with adjustable potentiometer control. Please note: fluorescent, quartz and energy saving lamps, and motors with starting capacitors should not be used with this module.

- Knob included.

SPECIFICATIONS	AA-0346
Continuous power	600W
Maximum power	1200W
Dimensions	62 x 35 x 21mm

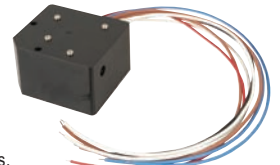


Please note that this kit operates on 240VAC mains voltage and you should be extremely careful when using these voltages. If in doubt, have an electrician check your work before applying power.

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	AA-0346	\$39.95	\$35.95	\$31.90

Programmable Interval 12V Timer Module

An easily programmed low cost electronic timer. It operates from 12VDC, with low current drain: <50mA when relay is on, <5mA when relay is off. It is link programmed for either a single ON timing period, or continuous ON/OFF cycling and can be link programmed for any of 48 different time periods, separately for ON time and OFF time. Selectable periods are 1/2/3/4/5/6/7/8/10/20/30/40/50/60/70/80 seconds, minutes and hours. It may be restarted at any time simply by pressing reset pushbutton.



SPECIFICATIONS	AA-0378
Power	12VDC
Dimensions	72(L) x 65(W) x 43(H)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0378	\$39.95	\$35.95	\$31.90

12V 3A Timer Module 2 Seconds to 23 Minutes

A versatile and useful timer module that can be set for periods of 2 seconds to 23 minutes. The start and stop functions are controlled by simple switch inputs and the relay output can control a device of up to 25V 3A.

SPECIFICATIONS	AA-0364
Operating voltage	12 - 15VDC
Current consumption	20mA/80mA (Relay off/on)
Relay point	Single pole, 25VDC, 3A
Time adjustment	2 sec to 23 min (+/-30%)
Dimensions	87(L) x 60(W) x 33(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0364	\$39.95	\$35.95	\$31.95

LED Tester

With this basic but essential tool it is possible to check the function, brightness, colour and polarity of most kinds of light emitting diodes (LED). The LED to be tested plugs into the front panel, at the current you wish to test it with. Two 10mA positions have been included on this multi-LED tester so that comparisons between two LEDs can be made simultaneously.

SPECIFICATIONS	AA-0274
Operating voltage	9V battery required
Test currents	1mA, 2.5mA, 5mA, 10mA, 20mA, 50mA
Dimensions	58(L) x 44(W) x 25(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0274	\$13.95	\$12.35	\$10.95



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DUINOTECH INTRODUCTION

Arduino was designed as a way to allow anyone, young or old, to easily start programming with microcontrollers. There is now a huge community of Arduino enthusiasts, prepared to share their wealth of knowledge and continue to support its growth. Visit the arduino.cc website to learn more about Arduino.

DuinoTech is the Jaycar range of Arduino-compatible boards, shields, modules and accessories, and continues to expand. If you're just getting started in the world of Arduino check out our new Arduino Learning Kit (XC-3900) on page 316, which is designed for even the youngest users. It draws upon the numerous examples built into the Arduino IDE (integrated development environment) to allow anyone to start learning about Arduino.

A recent innovation that we are excited to introduce in this catalogue is LoRa wireless technology. This allows transmission and reception of data over several kilometres (line of sight) without a GSM network! You can see our LoRa Shield and LoRa-IP Gateway on page 321.

We have expanded our range of display modules and shields, including the full colour 128x128 Pixel LCD Module (XC-4629), the 320x240 Pixel LCD Shield with Touch (XC-4630), and the tiny OLED Display (XC-4384). Go to page 328 to see the display range.

For those who are looking at connecting to the IoT (Internet of Things), check out the Yun Shield (XC-4388) on page 321, which puts a fully-fledged Linux based computer (with Wi-Fi, Ethernet and USB) under the control of your Arduino main board. The BLE Bluetooth® Module (XC-4382) adds low power and the option to set the module as master as well as slave for bi-directional communication.

You will notice we have added 16 projects throughout the Arduino section as just a small sample of what you can do with Arduino. There are many more on our website too, just visit jaycar.com.au/arduino. There's more projects being added monthly, and also advertised in our monthly flyer.

duino**tech**

SHOW US YOUR BUILD COMPETITION

Susan, who shops at our Jaycar Botany store built:

School Holidays pop-up Arduino workshop for kids. Kids learned the basics of Arduino and built a simple two motor robot.



CAREER COUNSELLING ADVICE IN THE NEW ECONOMY...



Don't ask kids what they want to be when they grow up, but what problems they want to solve. This changes the conversation from who do you want to work for, to what do you need to learn to be able to do it.

Jaime Casap,
Google Global Education Evangelist

MINI MAKERS - MAKERS - PARENTS - EDUCATORS



SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS - STEM

Over the last decade and accelerated in the last five years, Australian and New Zealand Governments, independently have embarked on a strategic approach to ensuring each country's competitiveness within the global market place. Australia has introduced the National Innovation and Science Agenda, which aims to "inspire all Australians - from pre-school to the broader community - to engage with STEM", and in New Zealand the A Nation of Curious Minds - Supporting Science and Innovation Program. Both countries have identified Science, Technology, Engineering and Mathematics (STEM) as the keystone to creating a readily adaptable economy, now and in the future.

A key part of these strategies is to ensure teaching and training in STEM discipline and methodologies, at all levels, will prepare the foundation for lifelong STEM literacy in the community and workforce.

Governments in Australia and New Zealand have committed significant money to the STEM initiatives. This has seen major developments in K to 12 and University curriculum and teacher development programs to incorporate STEM subjects. There is still a long way to go, but your local primary, secondary and tertiary schools, will have integrated to a greater or lesser extent, a focus on STEM learning into their class rooms.

CAN WE HELP?

If you're a Parent or an Educator and want some practical resources or help, then your local Jaycar Store or Stockist can assist with a wide range of learning projects.

Jaycar has science, green power, robotics and construction kits for the kids to build themselves or for more electronics based learning from basic non-soldering kits through to Arduino programmable modules, shields, boards and accessories, and of course our great range of 3D printers & accessories.



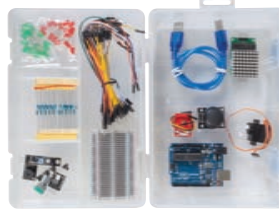
KITS FOR ARDUINO® EXPERIMENTERS

The kits below offer great value for money for anyone interested in Arduino. Each kit provides an extensive range of parts for those of you who like to tinker or experiment. All include an Arduino compatible main board, breadboard and jumpers. For someone just entering the world of Arduino we recommend the XC-3900 Learning Kit. This kit has been designed around the Arduino IDE's (Integrated development environment) built in tutorials and examples.

duinotech Learning Kit - Perfect for Beginners

Looking to get into Arduino® but don't quite know where to start? We have specially selected the components in this kit to allow an easy entry into the world of Arduino® and to work with the examples included with the Arduino® IDE. There are many resources online to teach how the Arduino® software and hardware interact. This kit is also compatible with the full range of duinotech shields and modules, which can be used to extend your Arduino® experience.

- 1 x Uno Main Board with USB Cable
- 1 x Breadboard
- 1 x Jumper Wires
- 1 x Servo Motor
- 1 x LDR Light Sensor Module
- 1 x RGB LED Module
- 1 x Joystick Module
- 1 x Buzzer Module
- 1 x LED Matrix Module
- 1 x Line Trace Module
- 1 x LED's
- 1 x Pushbuttons
- 1 x Resistors
- 1 x Carry case with insert tray and dividers



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Includes UNO Board	XC-3900	\$79.95	\$71.95	\$63.95

duinotech Nano Kit

- 1 x duinotech Nano
- 1 x Nano to full-size adapter shield.
- Assorted Jumpers
- Assorted Resistors
- 2 x Light Dependant Resistors
- 1 x IR Remote Receiver
- 4 x Tactile Switches
- Assorted LEDs
- 1 x Seven Segment Display
- 1 x 50k Potentiometer
- 1 x Solderless breadboard



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Includes Nano Board	XC-4285	\$79.95	\$71.95	\$63.95

duinotech MEGA Kit

- 1 x duinotech MEGA
- 1 x Solderless breadboard
- USB Cable
- 1 x 4 Digit Seven Segment Display
- 1 x 1 Digit Seven Segment Display
- 1 x 8x8 Dot Matrix Display
- 1 x 6AA battery holder
- Assorted Resistors
- Assorted LEDs
- RGB LED Module
- 4 x Tactile switches
- 2 x Piezo Sounders
- Assorted Jumpers
- 1 x 74HC595 Shift Register
- 1 x 50k Potentiometer
- 2 x Light Dependant Resistors
- 1 x Infrared Photo Diode
- 1 x Infrared Remote Receiver
- Analog Temperature Sensor
- 1 x 17 Button IR remote control
- 1 x Solderless breadboard.
- 1 x 40-pin header
- 1 x Two channel relay module
- 1 x 2x16 LCD Display



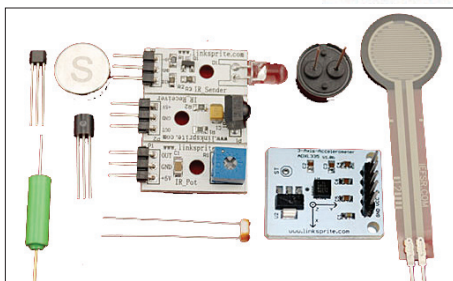
▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Includes Mega Board	XC-4286	\$109.00	\$97.95	\$86.95

VALUE PACKS

9 Piece Sensor Pack for Arduino

This sensor pack for Arduino includes the following components:

- 1 x IR Receiver Sensor
- 1 x Tilt Sensor
- 1 x Photo Cell Sensor
- 1 x Temperature Sensor
- 1 x Buzzer
- 1 x Hall Effect Sensor
- 1 x Magnet for use with Hall Effect Sensor
- 1 x ADXL 335 Triple Axis Accelerometer
- 1 x Force Sensitive Resistor



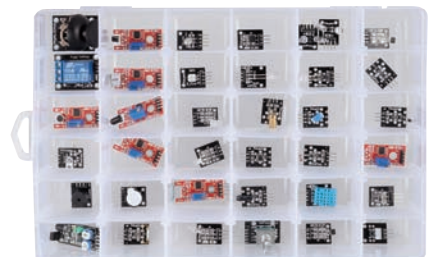
Not available in all stores but can be ordered

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4593	\$79.95	\$71.95	\$63.95

37 Piece Deluxe Modules Package

With 37 different sensors and modules, this kit covers just about every input and output you can poke a soldering iron at. Packaged in a clear plastic organiser. See our website for detailed code samples..

- Joystick Module
- Relay Module
- Small Microphone Module
- Large Microphone Module
- Line Tracking Sensor
- Obstacle Avoidance Sensor
- Flame Sensor Module
- Hall Effect Sensor
- Touch Sensor
- Digital Temperature Sensor
- Buzzer Module
- Passive Buzzer/Sounder
- RGB LED Module
- SMD RGB LED Module
- Two Colour LED Module
- Reed Switch Module
- Mini Reed Switch Module
- Heartbeat Sensor
- Seven Colour Flashing LED Module
- Laser Module
- Tactile Switch Module
- Shock Sensor
- Rotary Encode Module
- Tilt Switch Module
- Ball Switch Module
- Light Dependant Resistor Module
- Temperature and Humidity Module
- Digital Temperature Sensor
- Analog Temperature Sensor
- IR Transmitter Module
- IR Receiver Module



▲	Cat.	Qty 1+	Qty 3+
	XC-4288	\$129.00	\$115.95

ARDUINO®-COMPATIBLE BOARDS

duinotech Classic (UNO R3)

The flagship of our duinotech family, the duinotech Classic is a 100% Arduino® Compatible development board. Its stackable design makes adding expansion shields a piece of cake. Powered from 7-12VDC or from your computer's USB port. In the past few years the Arduino® has taken the electronics world by storm. Everyone from hobbyists to professional engineers is making use of its limitless versatility. And it's not just for tech-heads; it's easy to learn programming has made the Arduino® a hit with artists and educators as well. Jaycar is proud to add the duinotech to our line-up. Providing every feature of the Arduino® UNO and the Freetronics-Eleven, now at an even lower price! Join the Arduino® revolution today!

- Fully Arduino® UNO Compatible
- ATmega16u2 USB-Serial Chipset



duinotech

SPECIFICATIONS	XC-4410
ATmega328P Microcontroller	Program Memory: 32kB (2KB used by bootloader) EEPROM: 512 bytes, SRAM: 2kB Speed: 16MHz Digital IO: 14 pins (6 are configurable as Digital or PWM) PWM Capable: 6 pins, Analog Inputs: 6 pins Serial Ports: 1 (more supported via SoftwareSerial library)
IO	5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
Input voltage	5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
Dimensions	75(W) x 53(L) x 13(H)mm

▲	Cat.	Qty 1+	Qty 5+	Qty 5+
UNO	XC-4410	\$29.95	\$26.95	\$23.95

duinotech Lilypad Board

A compact ATmega 32U4 based main board designed with portability in mind. Just like the Leonardo, a single chip handles main controller functions as well as USB connectivity, so the Lilypad can also act as a USB mouse or keyboard. Another big difference is that the Lilypad is a 3.3V board, and so all its inputs and outputs are limited to 3.3V, although it can run off 5V from the USB port.

- 9 Digital IO pins, 4 which can work as PWM and 4 which can work as analog inputs
- On-Off Switch
- LiPo Battery Charging connector and Circuitry



duinotech

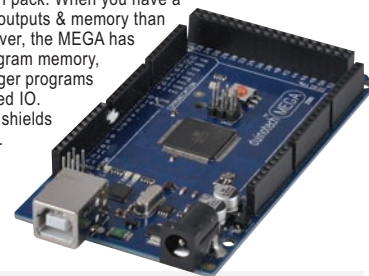
SPECIFICATIONS	XC-4620
Program Memory	32kB
SRAM	2.5kB
EEPROM	1kB
Processor Frequency	8MHz
Dimensions	Dia.: 51mm - Depth: 6mm

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Lilypad	XC-4620	\$29.95	\$26.95	\$23.95

duinotech Mega

This is our most powerful Arduino-Compatible board. Boasting more IO pins, more memory, more PWM outputs, more Analog inputs and more Serial ports, the MEGA is definitely the Leader of the duinotech pack. When you have a project that just needs more inputs, outputs & memory than the duinotech Classic (Uno) can deliver, the MEGA has them in spades. And with 8x the program memory, you have the room to write much larger programs to take full advantage of the increased IO. Despite its elongated size, standard shields will still drop straight onto this board.

- Fully Arduino® Compatible
- ATmega16u2 USB-Serial Chipset



duinotech

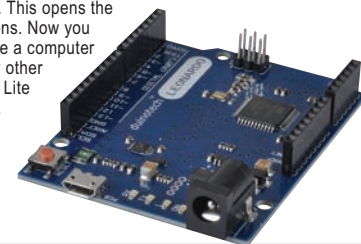
SPECIFICATIONS	XC-4420
ATmega2560 Microcontroller	Program Memory: 256kB (4kB used by bootloader) EEPROM: 4kB, SRAM 8kB, Speed: 16MHz Digital IO: 54 pins (15 are configurable as Digital or PWM) PWM Capable: 15 pins, Analog Inputs: 16 pins Serial Ports: 4 (1 is connected to on-board USB-Serial port) 5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
IO	5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
Input voltage	5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
Dimensions	108(W) x 53(L) x 15(H)mm

▲	Cat.	Qty 1+	Qty 5+
MEGA	XC-4420	\$49.95	\$44.95

duinotech Lite (LEONARDO)

Most of the duinotech models use two chipsets, one for the main controller, one for USB communication. The duinotech Lite combines both these functions into a single IC. This opens the door for more advanced USB functions. Now you can have your duinotech Lite emulate a computer keyboard, mouse, joystick and many other types of input device. The duinotech Lite also boasts more analog inputs (12), and an extra PWM channel.

- Fully Arduino® Compatible
- Built in USB-Serial



duinotech

SPECIFICATIONS	XC-4430
ATmega32u4 Microcontroller	Program Memory: 32kB (4KB used by bootloader) EEPROM: 1kB, SRAM: 2.5kB Speed: 16MHz Digital IO: 20 pins (7 are configurable as digital or PWM) PWM Capable: 7 pins Analog Inputs: 12 pins (6 are shared with digital pins) Serial Ports: 2 (One USB, one UART, more supported via SoftwareSerial library)
IO	5VDC Regulated via USB port or 5V pin 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
Input voltage	5VDC Regulated via USB port or 5V pin 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
Dimensions	75(W) x 53(L) x 13(H)mm

▲	Cat.	Qty 1+	Qty 5+	Qty 5+
LEONARDO	XC-4430	\$29.95	\$26.95	\$23.95

ARDUINO MAIN BOARD SELECTION

There are a number of Arduino Main Boards available, and as you might expect, different boards will work better in different situations. If you've already checked out our Comparison Guide and still are not sure about which board to choose, or even just want some guidance for an upcoming project, see our Selection Guide below.

UNO (XC-4410):

If in doubt, choose the Uno board. The Uno offers the best shield compatibility, especially if you are working with a shield that uses SPI (serial peripheral interface) for communication. Most shields are designed with the Uno in mind, so if you're having trouble getting sample code working, making sure it works with an Uno is a good start.

NANO (XC-4414):

The Nano is essentially an Uno in a smaller package. Obviously, it will not work with shields, but if you have a design you need to make smaller, or just want something compact to fit on a breadboard or prototyping board, then the Nano is a good choice. Because the Nano uses the same microcontroller IC as the Uno, practically any circuit designed around an Uno can be transferred to a Nano.

LEONARDO (XC-4430):

The big difference between an Uno and a Leonardo is the microcontroller IC on the Leonardo has the USB functions built-in. While this saves an IC on the board, it also means the microcontroller can talk directly to a connected computer via USB. If you're building a circuit where you want to emulate a keyboard or mouse, or perform some other USB function, then the Leonardo will be a good choice. The built-in USB functionality also separates the USB-Serial from the Serial communication on D0/D1. We find this is handy when working with shields and modules that use serial communication, as debugging data can be kept separate from control signals on D0/D1.

LILYPAD USB (XC-4620):

The Lilypad USB has the same microcontroller IC as the Leonardo, so is a good choice for similar applications, but is designed around a 3.3V board voltage, so

should be considered if you are interfacing to modules that are not 5V tolerant. The Lilypad USB also has an built-in Lithium battery charge circuit, so is ideal for projects that will need to connect to a battery. The smaller size also suits portable projects.

MEGA (XC-4420):

The main time you will need to step up to a Mega is if you run out of resources - whether it is pins, RAM, EEPROM or program flash memory, the Mega has more of it. Even if you need extra hardware serial ports or PWM capable pins, these are available on the Mega. Standard shields will still fit on the Mega, so you don't necessarily need to start from scratch if you're already designing for the Uno or Leonardo.

ATMEGA328P IC (ZZ-8727):

This isn't quite a main board, but if a Nano isn't small enough, there's something even smaller. This is simply the bare microcontroller IC as found on the Uno board and its accompanying crystal oscillator. If you don't need a USB-Serial converter or a 5V regulator, then the ATmega328P IC is worth looking at. You can even test your design on a breadboard, and then transfer it to our new HP-9570 and HP-9572 prototyping boards to make your design more permanent. You may need to use the XC-4627 ISP programmer to upload your sketches due to the lack of a USB-Serial converter.

I STILL CAN'T FIND ONE BOARD THAT DOES WHAT I NEED!

We don't hear this too often, but a possible solution is to use multiple main boards in your project. You might consider setting up one board to collect data from sensors or manage an output display, then connect back to the other main board over a single serial pin, freeing up resources.

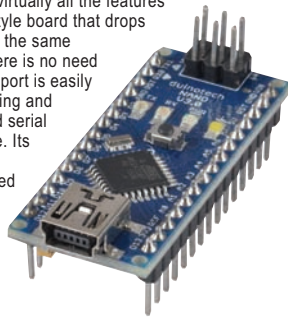
TECH TALK

ARDUINO®-COMPATIBLE BOARDS (CONTINUED)

duinotech Nano

This is the most breadboard friendly Arduino®-Compatible device you will find. Despite its small size, it packs virtually all the features of the full duinotech boards into a tiny DIP-style board that drops directly into your breadboard. It uses exactly the same ATmega328P chip as its larger cousins, so there is no need to change any of your coding. A Mini-B-USB port is easily accessible on top of the board for programming and serial communication. LEDs show power and serial status and a reset button is easily accessible. Its small DIP-style makes it easy to embed into Veroboard or custom PCBs for more advanced projects.

- Fully Arduino® and duinotech Compatible
- FT232RL USB-Serial Chipset
- USB cable included



duinotech

SPECIFICATIONS	XC-4414
ATmega328P Microcontroller	Program Memory: 32kB(2kB used by bootloader) EEPROM: 512 bytes, SRAM:2kB, Speed: 16MHz
IO	Digital IO: 14 pins (6 are configurable as Digital or PWM) PWM Capable: 6 pins, Analog Inputs: 6 pins Serial Ports: 1 (more supported via SoftwareSerial library)
Input voltage	5VDC Regulated via USB port or 5V pin, 7-14VDC via Vin pin On-board regulator supplies 5V when unit is powered via Vin pin
Dimensions	46(L) x 18(W) x 18(H)mm

▲	Cat.	Qty 1+	Qty 5+
	XC-4414	\$29.95	\$26.95

StepDuino Arduino Compatible

A complete, self-contained Arduino-compatible board with onboard stepper motor drivers, servo interface, microSD card slot, and 20x4 character LCD. Perfect for building robots or other mechatronics projects: just connect up stepper motors and go! Even includes an interface for a commonly available Nintendo DS touch screen (not included) that can be fixed over the LCD or mounted beside it.



- ATmega328P MCU running the Arduino bootloader
- ATmega16u2 MCU for USB-serial connection
- 2 x stepper motor controllers suitable for 4-wire bipolar steppers
- 2 x servo controller outputs
- 20x4 LCD
- Breakouts for I²C, UART, and analog/digital pins: perfect for limit switch connections or additional sensors
- Breakouts for touchscreen connection (not included)
- Micro USB socket for programming - even comes with a micro USB cable included in the box!
- microSD card slot
- Switchmode power supply
- Program it using the Arduino IDE
- Dimensions: 113(W) x 74(H) x 25(D)mm

Limited Stock



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4249	\$169.00	\$151.95	\$134.95

MAIN BOARDS DEFINED

Duinotech main boards are the brains behind your project, processing data from your sensors and other inputs and deciding what action to take. What the main board does is dictated by what is programmed into it via the sketch in the IDE. It could be as simple as recording a sensor value like a datalogger, or coordinating the movement of a robot based on what it sees in its surroundings.

TECH TALK



SKETCHES DEFINED

The sketch is the program that is compiled by the Arduino IDE and uploaded to your main board. This is the software part of any Arduino project. One of the great things about the Arduino community is that they love to share ideas, and sketches can be found in the Arduino IDE and in many places where users show off their projects on the internet.



TECH TALK

ARDUINO

COMPARISON GUIDE

	XC-4410	XC-4620	XC-4420	XC-4430	XC-4414
Name	duinotech Uno	duinotech Lilypad	duinotech Mega	duinotech Leonardo	duinotech Nano
Controller	ATmega 328P	ATmega 32u4	ATmega 2560	ATmega 32u4	ATmega 328P
Program Memory	32kB	32kB	256kB	32kB	32kB
RAM	2kB	2.5kB	8kB	2.5kB	2kB
EEPROM	1kB	1kB	4kB	1kB	1kB
Digital IO	14	5	54	20	14
Analog IO	6	4	16	6	6
PWM Pins	6	4	15	7	6
USB Connector	USB-B	USB-B Micro	USB-B	USB-B Micro	USB-B Mini
Shield Compatible	•		•	•	
Dimensions (mm)	75 x 53 x 13	51 x 50 x 7	108 x 53 x 15	73 x 53 x 13	46 x 18 x 18
Page	317	317	317	317	318

RELATED PRODUCTS

FROM
\$39.95
TS-1652



SOLDERING KIT

P176

FROM
\$12.95
TH-1897



CUTTERS

P215

FROM
\$24.95
BM-7133



BOOKS

P347

FROM
\$4.95
PB-8817



BREADBOARD

P342

ARDUINO®-COMPATIBLE MODULES & SHIELDS - AUDIO/SOUND

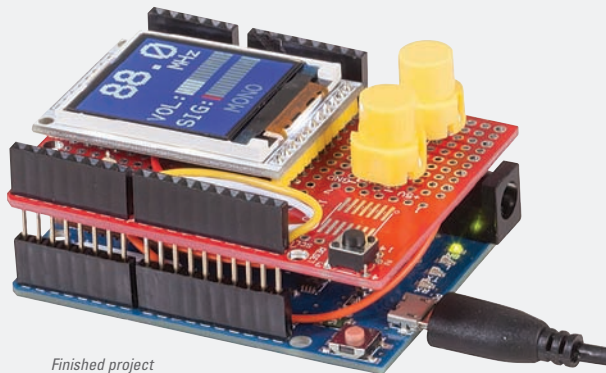
People are accustomed to communicating with sound, and it makes sense for our Arduino to do the same thing. From generating a warning simple tone or responding to a noise through to playing back a recorded message, there are a variety of Arduino modules and shields for making and detecting sounds.

MAKE YOUR OWN FM RADIO WITH ARDUINO®

With our FM Radio Module in the range, we've received many requests for a FM Radio Project. We think our 'Make your own Radio' kit will be our coolest one yet. This project boasts amazing functionality from just 6 parts, some wires and a little bit of soldering. Mix in some of your skill, our instructions and parts, and you have got your very own FM Radio.

WHAT YOU WILL NEED:

LEONARDO Main Board	XC-4430
FM Radio Module	XC-4595
Prototyping Shield	XC-4482
128x128 Colour LCD Display Module	XC-4629
2 x Snap Action Keyboard Switch	SP-0722
4.7KΩ Resistor Pack	RR-0588



Finished project

SEE STEP-BY-STEP INSTRUCTIONS AT JAYCAR.COM.AU/DUINOTECH-FM-RADIO

Sound & Buzzer Module

This versatile piezo-element module can be used for either input or output! It can be used as a noise-maker driven by your microcontroller for audible feedback of events, and it can also be used as a knock-detector input to sense events and react to them. Includes a built-in 1M resistor to allow the piezo element to detect shocks.

- Frequency response 0-20kHz, peak resonant frequency: 4KHz +/-500Hz
- Sound pressure level at 10cm: 75dB (min)
- 1 to 25V rated voltage (3 to 5V typical)
- Built-in 1M resistor for knock sensor functionality
- Dimensions: 23(W) x 16(H) x 5(D)mm

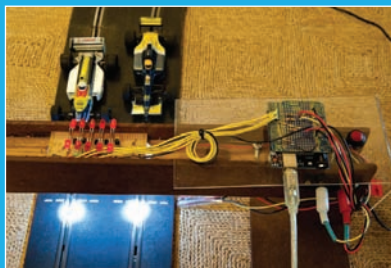


Limited Stock

▲	Cat.	Qty 1+
	XC-4232	\$11.95

SHOW US YOUR BUILD COMPETITION

Ian, who shops at our Jaycar Woollongabba store built:



A slot car race control using Arduino Uno. The red LEDs provide a Formula-1 style start with random delay before the lights go out.. False starts sound an alarm and flash the lights. Large white LEDs above and phototransistors glued under the tracks provide lap timing displayed on PC to 0.001s.

Active Buzzer Module

Use this module to generate sound from your Arduino; libraries are available to produce different tones and frequencies.

- Operating voltage 5VDC
- Active speaker
- 3 pin header
- Dimensions: 25(L) x 15(W) 10(H)mm



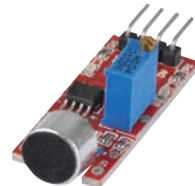
duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4424	\$3.95	\$3.45

Microphone Sound Sensor Module

This unit is highly sensitive with the added advantage of having two outputs. An analogue output for real time microphone voltage signal, and a digital output for when the sound intensity reaches its threshold. Great to turn your Arduino® into a voice recorder or vox.

- 5VDC operational voltage
- Sensitivity potentiometer adjustment
- Dimensions: 43(L) x 16(W) x 13(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4438	\$7.95	\$7.15

2 x 3W Amplifier Module

This remarkably small module provides a complete 2 x 3W stereo audio amplifier. Ideal for driving small speakers and earphones. Requires no external components.

- Operating Voltage: 2.5-5.5VDC
- Output Power: 2x3W @ 4ohm
- Efficiency: >90%
- Uses PAM8403 IC.
- Amplifier type: Class-D
- Dimensions: 23(W) x 16(D) x 2(H)mm



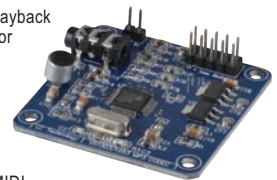
duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4448	\$4.95	\$4.45

MP3 Recording Module

A full featured MP3 module that supports both playback and recording. An onboard microphone is used for audio in, and a 3.5mm jack provides the output. There is also a line-in header to use an external audio source instead of the microphone. Most projects using this device will require some form of mass-storage, such as an SD card.

- Input power 5VDC
- Supports MP3, MP3+V, WMA,WAV, MIDI, SP-MIDI
- UART & SPI interface
- Recording format IMA ADPCM
- Dimensions: 44(L) x 44(W) x 10(H)mm

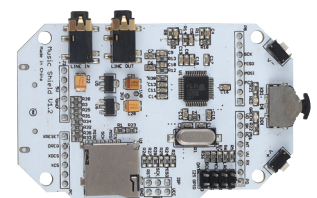


duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4516	\$34.95	\$31.45	\$27.95

Music Shield

A music player and recorder with professional audio quality. Capable of reading a variety of formats from the microSD card slot including MP3, WAV, MIDI, OGG Vorbis and outputs via the headphone/line out socket; recording is via the line in socket. A multifunction button is built-in and pins on Arduino board can be assigned for various music control.

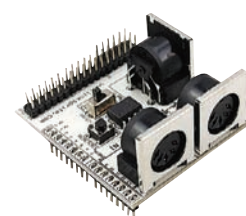


duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4544	\$59.95	\$53.95	\$47.90

MIDI Shield

Add music instruments by giving your Arduino project a powerful MIDI communication protocol. The MIDI protocol shares many similarities with standard asynchronous serial interfaces, so you can use the UART pins of your microcontroller to send and receive MIDI's event messages. The MIDI Breakout provides both MIDI-IN and MIDI-OUT connections, as well as a MIDI-THRU port.



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4545	\$44.95	\$40.45	\$35.95

ARDUINO®-COMPATIBLE MODULES & SHIELDS - AUDIO/SOUND (CONTINUED)

Wi-Fi/Ethernet Shield with Airplay/DLNA Audio

A versatile shield that has both ethernet and Wi-Fi to give wired or wireless capability for audio streaming. Your Arduino board becomes a client that accepts music being pushed over Airplay for iOS devices or DLNA compatible devices including Android. There is also a USB host which can be used as power source or a webcam slot with future firmware update.

- Audio Output: three segment audio jack
- Includes Shield, Wi-Fi module & Antenna cable



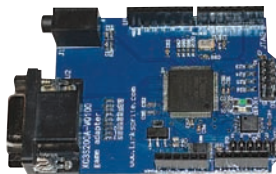
duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4548	\$159.00	\$142.95	\$126.95

Gameduino

Gameduino is a game adaptor for Arduino (or anything else with an SPI interface) built as a single shield that stacks up on top of the Arduino and has plugs for a VGA monitor and stereo speakers. The sound and graphics are definitely old-school, but thanks to the latest FPGA technology, the sprite capabilities are a step above those in machines from the past. The adaptor is controlled via SPI read/write operations, and looks to the CPU like a 32Kb RAM.

- Video Output 400x300 pixels in 512 colours
- Compatible with any standard VGA monitor (800x600 @ 72Hz)

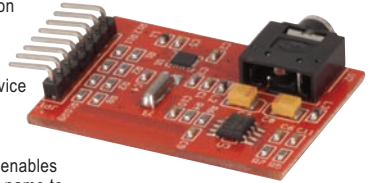


duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4550	\$84.95	\$76.45	\$67.95

Si4703 FM Tuner Breakout Board

This is a breakout board for the Silicon Laboratories Si4703 FM tuner chip. Beyond being a simple FM radio, the Si4703 is also capable of detecting and processing both Radio Data Service (RDS) and Radio Broadcast Data Service (RBDS) information. The Si4703 even does a very good job of filtering and carrier detection. It also enables data such as the station ID and song name to be displayed to the user.



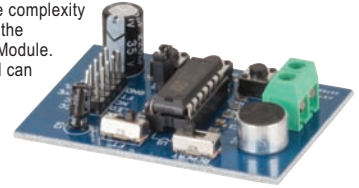
duinotech

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4595	\$24.95	\$22.35	\$19.70

Record & Playback Module

Add sound to your Arduino without the complexity of MP3 modules and SD cards, using the ISD1820 based record and playback Module. Includes an on-board microphone and can drive a small speaker directly.

- Records up to 10 seconds
- Control playback from module buttons or digital inputs
- Works on 3.3V or 5V
- Can work in loop or single play mode
- Dimensions: 54 x 38 x 10mm



duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4605	\$9.95	\$8.75	\$7.75

See page 118 for our Electric Microphone Inserts

ARDUINO®-COMPATIBLE MODULES & SHIELDS - BLUETOOTH®

Bluetooth® technology is in many things around us, such as computers and mobiles phones.



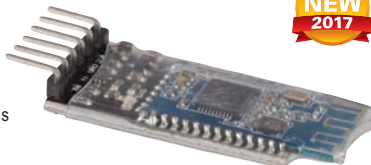
Allowing Arduino to communicate with these devices via Bluetooth can expand their functionality.

From simple display of debugging data on your laptop to full control of your Arduino robot with an app, Bluetooth can provide the connectivity you need.

Bluetooth V4.0 BLE

Configurable as master or slave. Provides a serial communication channel.

- State status pin
- Serial interface with AT commands
- 5V IO and power



NEW 2017

Bluetooth® duinotech

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4382	\$29.95	\$26.95	\$23.95

Bluetooth® Module

Do you want to communicate wirelessly with your duinotech project, but don't want the hassle of configuring RF modules? Well this module with Bluetooth® technology is the answer. Connected to your duinotech via the serial pins, and to your computer via Bluetooth®, this module creates a seamless serial-port link between you and your Duino®. Better still, you can use it to communicate with your Bluetooth® enabled Smartphone (not iOS compatible).

- Chipset: BC417
- Protocol: Bluetooth® V2
- Operating Voltage: 3.3V
- RF Power: 6dBm
- Dimensions: 28(W) x 13(L) x 8(H)mm

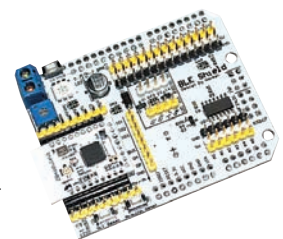


Bluetooth® duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4510	\$19.95	\$17.95	\$15.95

Shield with Bluetooth 4.0 BLE Technology

Brings the latest Bluetooth 4.0 BLE (Bluetooth Low Energy) to Arduino. The peak energy consumption is just half of the traditional Bluetooth devices. A single button battery (such as 3V 220mAh CR2032) on a Bluetooth 4.0 single mode chip could work for months or years. Start-up time is only a few milliseconds compared to about 4 seconds on the Bluetooth 2.1.

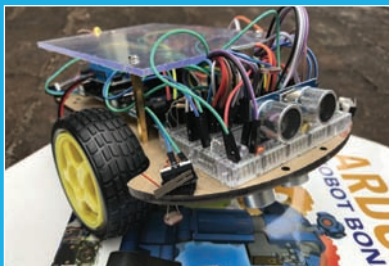


Bluetooth® duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4549	\$59.95	\$53.95	\$47.90

SHOW US YOUR BUILD COMPETITION

Josiah, who shops at our Jaycar Castle Hill store built:

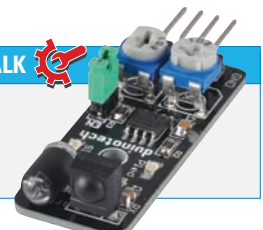


This Arduino based robot has the ability to sense its surroundings through distance sensors, microswitches and photoresistors. It has the capability to follow lines, avoid obstacles (walls and edges) and it can even be remote controlled via a Bluetooth® module. It was built using Jaycar parts only.

MODULES DEFINED

TECH TALK

The many modules available in our range give you easy connections with online guides for interactive sensors, actuators, displays, light and sound.



ARDUINO®-COMPATIBLE MODULES & SHIELDS - WI-FI/NETWORK/COMPUTER

You might think it's a bit of a stretch to put an Arduino in the same category as a computer, but with the right modules and shields, you can almost be on the same level. With a Wi-Fi or Ethernet connection, your Arduino can be serving up web pages or communicating over great distances. Add a USB host shield, and connect a keyboard or mouse, and you've got an easy to use interface for your next project.

YOUR OWN ETHERNET IO CONTROLLER WITH ARDUINO®

This clever project uses our XC-4412 ethernet shield to connect your Arduino to a wired network so you can access it across the Internet. See and change the current state of the IO pins, so you can turn devices on and off remotely across the Internet. Use it to turn on the lights in another room (relay module required), see if someone has left the fridge door open (analog light or temperature sensor required), see if it's raining outside (rain sensor module required).

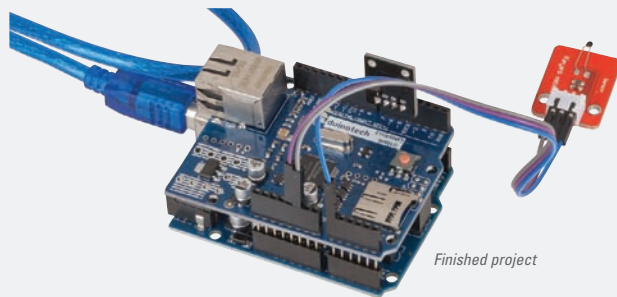
WHAT YOU WILL NEED:

duinotech Uno Board XC-4410
Ethernet Shield XC-4412



YOU MAY NEED SOME OF THE FOLLOWING ITEMS:

RGB LED Module XC-4428
Analog Temperature Sensor Module XC-4494
10m Ethernet Cable YN-8205



Finished project

STEP-BY-STEP PROJECT INSTRUCTIONS AND CODE VISIT
WWW.JAYCAR.COM.AU/DIY-ETHERNET-CONTROLLER

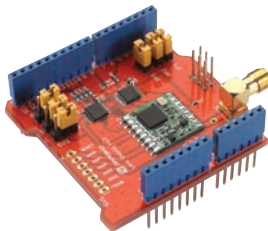
Low Cost Long Range Data Communications

LoRa™ is a powerful new technology enabling secure wireless data communications over long distances even several kilometres without the need of a mobile GSM network. LoRa™ can be used in many outdoor or indoor applications, such as building automation, weather monitoring, irrigation systems control, smart metering, smart cities, and much more. For more information about LoRa™ visit www.lora-alliance.org

LONG RANGE LoRa SHIELD Cat. XC-4392

The Arduino Compatible Long Range LoRa™ shield turns your Arduino® into a LoRa™ node capable of transmitting and receiving data over long distances, even several kilometres, without the need of a GSM network. The perfect solution to your remote sensor and control projects. An external antenna is included.

- Compatible with 3.3V or 5V I/O Arduino Board.
- LoRa™ frequency Band: 915MHz
- Low power consumption
- Includes external Antenna (via I-Pex connector)



LONG RANGE LoRa GATEWAY Cat. XC-4394

The Long Range LoRa™ Gateway allows you to connect several remote wireless LoRa™ devices, such as sensors, switch and control nodes to an IP network or the Internet, via Wi-Fi or Ethernet. A USB host port allows the gateway to be connected to a 3G/4G network using an external modem (not included).

- Internet connection via LAN, Wi-Fi
- USB host port (for 3G/4G modem connection)
- Built-in web server
- Managed by Web GUI, SSH via LAN or Wi-Fi
- Support Wi-Fi AP, Client or Ad-Hoc(Mesh) mode
- 9 x Digital, 7 x Analogue I/O, 2 x PWM, 1 x I²C
- Arduino IDE compatible. Easy to program
- LoRa™ frequency band: 915 MHz



Note: Radio transmitting devices must be used in accordance with Australian Communications & Media Authority guidelines (www.acma.gov.au)

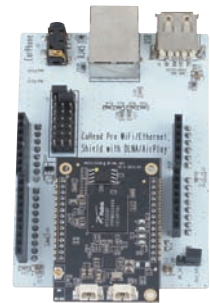


	Cat.	Qty 1+	Qty 3+	Qty 6+
LoRa Shield	XC-4392	\$69.95	\$62.95	\$55.95
LoRa Gateway	XC-4394	\$149.00		

Wi-Fi/Ethernet Shield with Airplay/DLNA Audio

A versatile shield that has both ethernet and Wi-Fi to give wired or wireless capability for audio streaming. Your Arduino board becomes a client that accepts music being pushed over Airplay for iOS devices or DLNA compatible devices including Android. There is also a USB host which can be used as power source or a webcam slot with future firmware update.

- Audio Output: three segment audio jack
- Includes Shield, Wi-Fi module & Antenna cable



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4548	\$159.00	\$142.95	\$126.95

Ethernet Shield

A network shield that will allow the user to set their Arduino® up as web server, control your project over your network or even allow your Arduino® to connect to the World Wide Web.

- 10/100Mb Ethernet port
- Reset button
- microSD card slot
- Stackable headers
- Dimensions: 69(L) x 48(W) x 14(H)mm



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4412	\$39.95	\$35.95	\$31.95

USB Host Expansion Board

Brings the ubiquitous USB Host connectivity to your Arduino® project. This shield even supports Google Android® ADK allowing connections to Smartphones and Tablets. The USB port can also be used with a USB hub.

- Supports HID: keyboards, mice, joysticks, etc.
- Supports mass storage devices: USB sticks, memory card readers, external hard drives, etc.
- Dimensions: 55(W) x 54(D) x 23(H)mm



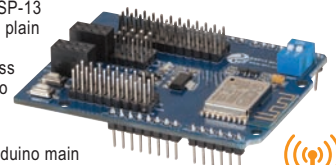
duinotech

	Cat.	Qty 1+	Qty 5+	Qty 5+
	XC-4456	\$39.95	\$35.95	\$31.95

ESP-13 Wi-Fi Shield

Using the powerful ESP8266 IC, the ESP-13 Wi-Fi Shield adds much more than just plain Wi-Fi to your Arduino. It has an 80MHz processor and can also act as an access point or web server. An excellent way to get into the Internet of Things (IoT).

- Integrated TCP/IP stack
- Simple AT command interface with Arduino main board
- Can be programmed directly with Arduino IDE (separate programmer needed)
- Switches on shield to disconnect from Arduino
- Dimensions: 68 x 52 x 12mm



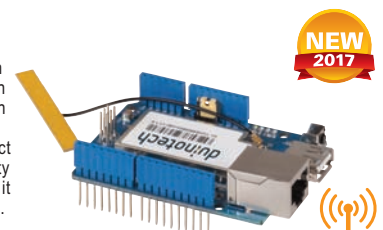
duinotech

	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4614	\$34.95	\$31.45	\$27.95

Yun Wi-Fi Shield

The Yun Shield is a complete compact Linux computer based on the Open WRT firmware which can be controlled by your Arduino Main Board. It features Wi-Fi, ethernet, USB and Serial interfaces. Connect a 3G dongle to provide connectivity for your Arduino on the go, or use it as a gateway for your IoT projects. Can also program an attached Arduino board via Wi-Fi.

- Web configuration interface.
- 77mm x 54mm x 26mm



duinotech

	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4388	\$79.95	\$71.95	\$63.95

ARDUINO®-COMPATIBLE MODULES & SHIELDS - IR/RF

We'd be pretty lost without wires connecting everything together, but sometimes it can be handy to make the connection without getting all tangled up. Check out the shields and modules below for ways to connect wirelessly. Alternatively, control an existing wireless device like the IR remote on your TV, or get data from the 433MHz transceiver on your weather station.

MAKE YOUR OWN RTC POWER POINT TIMER WITH ARDUINO®

Using Arduino to control a 240V appliance but don't want to get zapped? Well then, here is your solution. Building on the simplicity of the Arduino® Clock, we've developed a project that interfaces to our MS-6148 Remote Controlled Mains Outlet using a 433MHz transmitter and adding some extra code, gives you a mains timer with the following features:

- Switch on/off appliances with a minute of resolution
- Keeps time during power off
- Programme up to 99 timers
- Can be set for any or all days of the week, weekdays or weekends
- Can be set to turn single channel or all channels on or off
- Manual control of transmitter for setup and troubleshooting

And being Arduino®, there's nothing to stop you taking the code apart and adding your own features.

WHAT YOU WILL NEED:

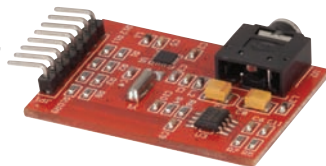
Uno Main Board	XC-4410
Data Logging Shield	XC-4536
LCD Shield	XC-4454
Wireless 433MHz Transmitter Module	ZW-3100
Remote Controlled Mains Outlet	MS-6148



SEE STEP-BY-STEP INSTRUCTIONS AT
WWW.JAYCAR.COM.AU/RTCPowerPointTimer

Si4703 FM Tuner Breakout Board

This is a breakout board for the Silicon Laboratories Si4703 FM tuner chip. Beyond being a simple FM radio, the Si4703 is also capable of detecting and processing both Radio Data Service (RDS) and Radio Broadcast Data Service (RBDS) information. The Si4703 even does a very good job of filtering and carrier detection. It also enables data such as the station ID and song name to be displayed to the user.



duinotech

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4595	\$24.95	\$22.35	\$19.70

Sim Card Breakout Board

This is a full 8-pin breakout for the SIM socket allowing direct access to SIM communication. Features a Lock and Open switch.



duinotech

Not available in all stores but can be ordered

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4596	\$19.95	\$17.95	\$15.95

XBee Interface Shield

Break out your XBee compatible boards to the standard 2.54mm header spacing. Ideal for the XC-4600 GPS Bee.

- Pins marked on board
- Works with other XBee boards
- 20 pins in two rows
- Dimensions: 22 x 22 x 15mm



duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4608	\$4.95	\$4.45	\$3.95

Infrared TX Module

Use this device to send data over infrared. Use your Arduino to control your TV or Media Centre. Combine it with our RX module (XC-4427) and you have simple wireless communication. You could also use it to control one of our infrared RC helicopters!

- Operating Voltage: 5VDC



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4426	\$4.95	\$4.45	\$3.95

Infrared RX Module

Receive data sent via infrared, this module can read the signals sent by most IR remote controls. Pair it with the TX Module (XC-4426) to make a universal remote control.

- Operating Voltage: 5VDC



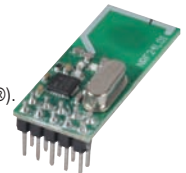
duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4427	\$3.95	\$3.45

2.4GHz RF Module

Based on the NRF24L01 transceiver IC, this module allows communication on the license free ISM band. Despite its diminutive size, it supports on-air data rates of up to 2Mbps. No external components are required (other than your Duino®).

- Operating Voltage: 3.3V (5V tolerant logic)
- Output Power: 1mW
- Chipset: NRF24L01
- Ultra low power consumption
- Protocol: SPI
- Dimensions: 33(L) x 14(W) x 9(H)mm



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▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4508	\$9.95	\$8.75	\$7.75

RF Transceiver Module

This module adds a versatile 433MHz radio to your duinotech project. Capable of transmitting and receiving over a wide frequency range, these modules allow two-way wireless communication between duinotechs. Controlled via SPI. Prewritten libraries available.

- Operating Voltage: 1.9-3.6VDC
- Frequency Range 433/898/915MHz
- Maximum Data Rate: 50kbps (with error correction)
- RF output power: 13dBm(20mW)
- Connection protocol: SPI
- Includes antenna.
- Dimensions: 32(W) x 19(L) x 19(H)mm (Excluding antenna)



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4522	\$19.95	\$17.95	\$15.95

433MHz Wireless Modules

Pre-built 433MHz wireless transmitter / receiver modules featuring ASK encoding and are ideal for devices using short data bursts such as remote controls, trigger pulses etc.

SPECIFICATIONS	ZW-3100	ZW-3102
Output power	3dBm.	5VDC
Supply voltage	3VDC	10mA max
Supply current	10mA max	300bps to 10kbps
Data rate	300bps to 10kbps	42(H) x 11(W)mm (excl. pins)
PCB measures	18.5(H) x 14.5(W)mm (excl. pins)	



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Transmitter	ZW-3100	\$13.95	\$12.35	\$10.95
Receiver	ZW-3102	\$13.95	\$12.35	\$10.95

ARDUINO®-COMPATIBLE MODULES & SHIELDS - POWER / VOLTAGE CONVERTER

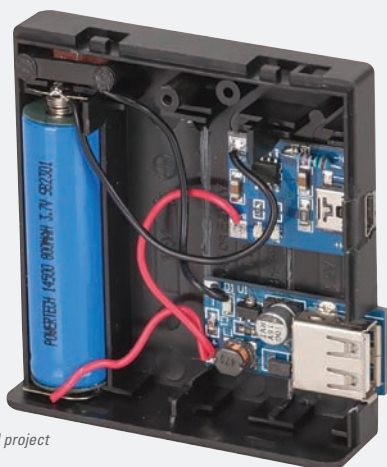
Getting power to your Arduino project is fairly important, and will probably need extra components if you want to take what you're building beyond the reach of the USB cable on your computer. From charging batteries to converting between systems running off different voltages or even getting power to your breadboard, you'll find something to help amongst the modules below.

MAKE YOUR OWN LITHIUM BATTERY USB CHARGER WITH ARDUINO®

A compact power solution if you need to power your Arduino project on-the-go, or where constant 5V power is not available. Some soldering and detailed construction required.

WHAT YOU WILL NEED:

Lithium Battery USB Charger Module	XC-4502
14500 Lithium Battery	SB-2300
DC to 5V DC Converter Module	XC-4512
15Kohm ½ Watt Resistor	RR-0600
4AA Switched Battery Holder	PH-9282



Finished project

SEE STEP-BY-STEP INSTRUCTIONS AT WWW.JAYCAR.COM.AU/LBC

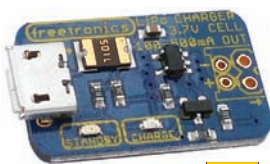
USB Li-Po Charger

A smart and convenient way to charge 3.7V Lithium Polymer cells from a 5V USB source such as a computer or a mobile phone charger. This charger uses an onboard charge management chip that monitors the state of the battery and adjusts the charge current accordingly to ensure the battery is charged safely.

- 5V in from USB connection (micro USB, not included)
- Output to suit 3.7V single Li-Po cell or parallel matched set of cells
- 100mA, 200mA, 300mA, 500mA selectable maximum charge rate
- Status LEDs for charge and standby
- 500mA polyfuse to protect power source
- Pads to fit 2mm JST connector or 0.1" connector

Note: No micro-USB cable or battery connector is included. Different batteries use different connectors, so the module has pads for you to mount the appropriate connector for your particular battery.

Limited Stock



▲	Cat.	Qty 1+
	XC-4243	\$14.95

4 Channel PoE Midspan Injector

Power up to 4 EtherTens or EtherMegs with DC from a low cost plugpack across your home or office network cables. This takes all the hard work out of cutting and hacking Ethernet cables to power remote boards, it isolates and powers the correct wires automatically.

- 4 channels of input/output jacks
- 4 EtherTen or EtherMega boards can be connected directly and powered by standard network cables on the output side
- Commercial Power-over-Ethernet sources are not required
- Blue power LED
- Mounting holes / Dimensions: 88(W) x 53(H) x 19(D)mm

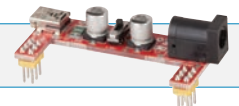
Limited Stock



▲	Cat.	Qty 1+
	XC-4254	\$34.95



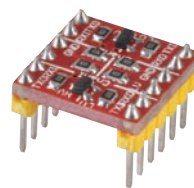
Also see our Breadboard Power Module on page 342



Logic Level Converter Module

While most of the modules used in the Arduino® world are 5V logic, some are 3.3V. And unfortunately, connecting them directly often results in "letting out the smoke!" This little module is the answer. Provides two bi-directional channels to safely marry 3.3V with 5.0V. Drops straight into solder-less breadboard or can be soldered into your own PCBs.

- Two bi-directional channels.
- 12-pin DIL package
- Dimensions: 35(W) x 31(D) x 21(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4486	\$4.95	\$4.45

Lithium Battery Charge Module

This tiny module charges a single lithium cell from a 5V supply. Ideally paired with XC-4512 DC-to-DC Converter Module to create a device that runs on a single lithium cell and recharges by USB. Output via solder tabs, Input is either via solder tabs or a mini-USB port.

- Input voltage 4.5V-5.5VDC
- Default charge rate: 1A
- Full charge voltage 4.2V
- Charge state LEDs
- Dimensions: 27(L) x 19(W) x 5(H)mm

Note: Batteries not included



duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4502	\$4.95	\$4.45

5VDC Boost Module

This module is capable of providing a stable 5V, from a single Li-Po or two Alkaline cells. Input is via two solder pads, output is via a female USB socket.

- Input Voltage Range: 2.5-5VDC
- Output Voltage: 5VDC
- Dimensions: 34(L) x 16(W) x 8(H)mm

Note: Batteries not included



duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4512	\$4.95	\$4.45

DC - DC Stepdown Module

This module accepts any voltage from 4.5 - 35VDC, and outputs any lower voltage from 3-34V. Output is adjusted via a multi-turn potentiometer. Use it to run your 5V Duinotech projects from a 6V, 9V or even 12V supply.

- Input voltage: 4.5 - 35VDC
- Output voltage: 4 - 34VDC adjustable
- Maximum output current: 2.5A
- Dimensions: 49(L) x 26(W) x 12(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4514	\$7.95	\$7.15

DC-DC Boost Module with Display

The Arduino compatible boost module can be used to provide higher voltages for your project, such as running 5V Arduino projects from Lithium batteries.

- Output from 5V-56V
- Input range 3.5V-35V
- Max 2A input current without heatsinking
- Solder terminals
- Cannot be used to reduce voltage
- Dimensions: 66 x 35 x 12mm

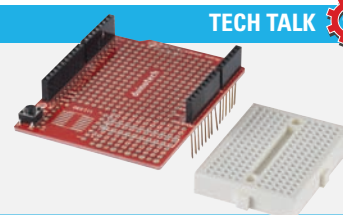


duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4609	\$19.95	\$17.95	\$15.95

SHIELDS DEFINED

Shields are expansion boards that plug in on top of your Arduino-compatible board to extend its capabilities. Options include displays and keypads, radio link receivers, communications, motor and relay drivers, and much more.



TECH TALK

ARDUINO®-COMPATIBLE MODULES & SHIELDS - OBSTACLE/DISTANCE DETECTION

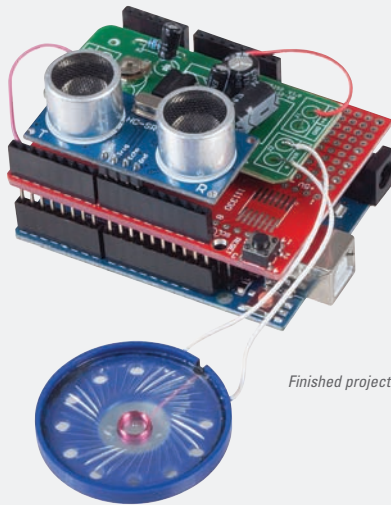
What good is a robot if it can't gather information about its surroundings? This collection of modules is ideal to add to a robot or roving autonomous project. You could use an array of XC-4442 Ultrasonic Sensor Module to map out a robot's surrounding and have the Arduino plan its next movement, or use the XC-4611 Triple Reflectance Module to sense the surface underneath your robot, or even create a space age musical instrument like the Ultrasonic Theremin.

MAKE YOUR OWN ULTRASONIC THEREMIN PROJECT WITH ARDUINO®

This project is ideal for the musically inclined. Just like a traditional Etherwave-Theremin, this theremin plays back samples and modulates them depending on the distance of your hand to the sensor. This simple project doesn't need many parts to get its sound because it uses a few of the special hardware features of the ATMEGA 328p chip in the Uno to do most of the work. There is some soldering needed in this project.

WHAT YOU WILL NEED:

Uno Main Board	XC-4410
Prototyping Shield	XC-4482
Ultrasonic Sensor Module	XC-4442
Mono Amplifier Module	AA-0373
40mm Speaker	AS-3004



Finished project

SEE STEP-BY-STEP INSTRUCTIONS AT
JAYCAR.COM.AU/DIY-ULTRASONIC-THEREMIN

Dual Ultrasonic Sensor Module

The popular HC-SR04 ultrasonic distance sensor module provides an easy way for your duinotech to measure distances up to 4.5m. Use it to add obstacle avoidance to your next robotics project or mount it on a servo to create your own ultrasonic SONAR!

- Uses just two digital pins
- Operating Voltage: 5V
- Sensor Angle: <15°
- Detection Distance: 20mm - 4.5m
- Dimensions: 45(W) x 20(D) x 13(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4442	\$7.95	\$7.15

PIR Motion Detector Module

A pyroelectric infrared PIR motion sensor is a handy addition to any Arduino® project. Wide operating range and delay times changeable via two potentiometers giving this module versatility to the user, it is a must for any security application.

- Working voltage: 5-20VDC
- Quiescent current: 65uA
- Level output voltage: High 3V / Low 0V
- Delaying time 0.3-18s
- Dimensions: 32(L) x 24(W) x 25(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4444	\$5.95	\$5.50

Line Trace Sensor Module

This module measures the reflectivity of a surface with an infrared emitter/detector pair. The output goes to high whenever the reflectivity exceeds the threshold value, which can be adjusted with the onboard potentiometer.

- Output electrical level signal: Active Low
- VCC/OUT/GND pin connector
- Power Supply: 2.5-12V
- Working current: 18-20mA at 5V



duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4474	\$7.95	\$7.15

Infrared Obstacle Avoidance Sensor Module

This module is an inexpensive solution for an obstacle avoidance sensor, perfect for robotic projects and very easy to interface directly with Arduino® and compatible boards. It also works with our pcDuino module by using the 3.3V output. The module has two potentiometers one to control frequency and the other to control the intensity.

- 5VDC operation
- Adjustable frequency and intensity
- 4 pin header
- Dimensions: 42(L) x 27(W) x 18(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4524	\$9.95	\$8.75	\$7.75

Triple Reflectance Sensor Module

Create a smarter line-following robot with the Triple Infrared Reflectance Sensor Module. The module has three evenly spaced sensors and mounting holes.

- CTRT5000 Sensor IC
- 5V Supply required
- Only 2 pins needed for power and 3 for outputs
- Dimensions: 69 x 32 x 8mm



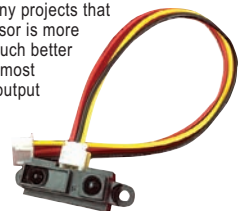
duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4611	\$10.95	\$9.85	\$8.75

Linker Infrared Distance Sensor

This sharp distance sensor is a popular choice for many projects that require accurate distance measurements. This IR sensor is more economical than sonar rangefinders, yet it provides much better performance than other IR alternatives. Interfacing to most microcontrollers is straightforward: the single analog output can be connected to an analog-to-digital converter for taking distance measurements, or the output can be connected to a comparator for threshold detection. The detection range of this version is approximately 100mm to 800mm.

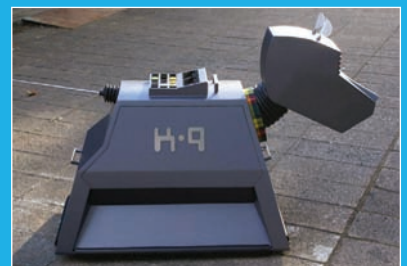
- Dimensions: 30(L) x 13(W) x 13.5(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4585	\$29.95	\$26.95	\$23.95

SHOW US YOUR BUILD COMPETITION

Isabella, who shops at our Jaycar Hobart store built:



I have scratch built a full-scale working radio controlled replica of K-9 (the robot dog from Dr Who). All the electronics were made from parts or kits from Jaycar. The drive motors and batteries that make him move are also from Jaycar.

ARDUINO®-COMPATIBLE MODULES & SHIELDS - MOTOR / POWER CONTROL

Practically all motors use more power than any of the pins on Arduino Main Board can supply, so we need to use a Motor Control Shield or Module to interface. Most motors also operate off a voltage different to 5V, and many of these Shields and Modules will provide regulation of higher input voltages down to 5V for your Arduino main board as well. Of course, these boards aren't limited to just driving motors, they are suitable for many power control applications

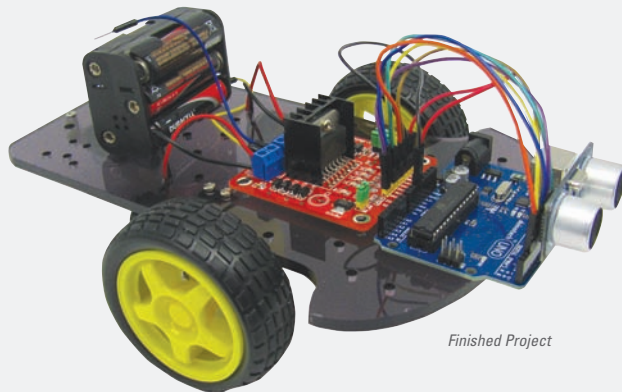
BUILD YOUR OWN WALL DODGING ROBOT WITH ARDUINO®

This little robot is fitted with an ultrasonic sensor, which it uses to help navigate its surroundings. When it detects an object in front of it, it backs up, turns a little and then continues on its way.

WHAT YOU WILL NEED:

duinotech Classic (Uno)
 Arduino® Compatible Stepper Motor Controller Module
 2wd Motor Chassis Robotics Kit
 6x AA Battery Holder
 Arduino® Compatible Dual Ultrasonic Sensor Module
 150mm Plug To Socket Jumper Leads - 40 Pieces

XC-4410
 XC-4492
 KR-3160
 PH-9206
 XC-4442
 WC-6028



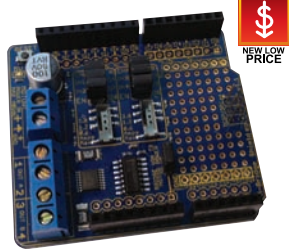
Finished Project

STEP-BY-STEP PROJECT INSTRUCTIONS AND CODE VISIT
WWW.JAYCAR.COM.AU/DIY-DODGING-ROBOT

H-Bridge Motor Driver Shield

Directly drive DC motors using your Arduino compatible board and this shield, which provides PWM (Pulse-Width Modulation) motor output on 2 H-bridge channels to let your board control the speed, direction and power of two motors independently. Perfect for robotics and motor control projects.

- Drives up to 2A per motor channel
- All outputs are diode and back-EMF protected
- Dimensions: 60(L) x 54(W) x 12(D)mm

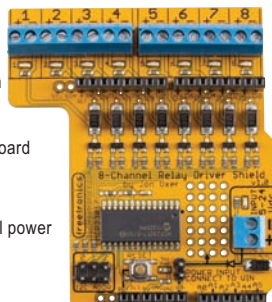


▲	Cat.	Qty 1+	Qty 3+
	XC-4264	\$34.95	\$30.95

8 Channel Relay Driver Shield

Drive up to 8 relays from your Arduino using just 2 I/O pins with this shield. It communicates with your board using I²C, so you can even stack several shields together to drive 16, 24, or more outputs! Includes back-EMF protection and works with a wide range of relays. Perfect for home automation projects when combined with relay SY-4052 and DIN-rail relay mounting base SY-4063.

- Plugs straight into your Arduino-compatible board
- Just 2 I/O pins required to control 8 outputs
- Individual LED status display on every output channel
- LED status displays for host power & external power
- Drive relay coils of 5V to 24V (with external power supply)
- Suggested relays like SY-4052 are rated at 2 x 5A @ 240VAC
- Dimensions: 52(L) x 66(W) x 12(D)mm



▲	Cat.	Qty 1+
	XC-4276	\$29.95

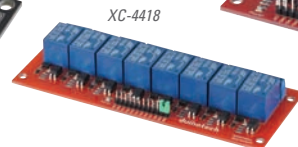
Relay Boards

These handy relay modules provide the easiest way to use your duinotech to switch real world devices. Available in one, four and eight channel versions, these modules can switch up to 10A per channel. Includes back-EMF protection and LEDs so you can easily see the state of the outputs. The four and eight channel versions even have optical isolation to protect your duinotech. While the one channel version operates directly from 5V.

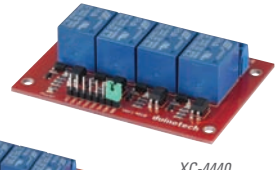
- Status LEDs show channel status
- Active High logic
- Screw terminals for easy connection to relay contact.
- SPDT Relays
- Current Ratings: 10A @ 250VAC, 10A @ 30VDC
- Four mounting holes on each module



XC-4419



XC-4418



XC-4440

duinotech

Cat.	Channels	Supply Voltage	Optical Isolation	Dimensions
XC-4419	1	5VDC	No	40(W) x 27(D) x 18(H)mm
XC-4440	4	12VDC	Yes	77(W) x 55(D) x 17(H)mm
XC-4418	8	12VDC	Yes	135(W) x 50(D) x 19(H)mm

▲	Channels	Voltage	Cat.	Qty 1+	Qty 5+
	1	5VDC	XC-4419	\$5.45	\$4.90
	4	12VDC	XC-4440	\$12.95	\$11.35
	8	12VDC	XC-4418	\$19.95	\$17.95

5V Stepper Motor & Driver Set

A small and versatile motor and driver set. 5VDC stepper motor controlled by the ULN2003 driver can be used with any Arduino® or compatible board via jumper leads.

- 5VDC stepper motor
- Stepper motor size: 28mm diameter
- Step angle 5.625 x 1/64
- Reduction ratio 1/64
- LED indicators
- Driver board size: 35(L) x 32(W) x 10(H)mm



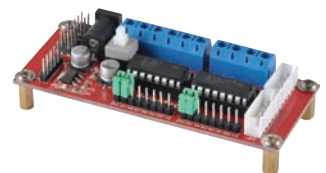
duinotech

▲	Cat.	Qty 1+	Qty 3+
	XC-4458	\$9.95	\$8.75

4WD DC Power Supply Motor Driver Module

Using a L293D dual H-Bridge DC motor control chipset, this module is one for the robotics hobbyist or professional who needs 4WD with individual motor control. The motors require their own power supply, but they can be any range from 5-16VDC.

- Motor Supply Voltage: 5-16VDC
- Logic Voltage: 5VDC
- Driver peak current 1A
- Dimensions: 92(L) x 38(W) x 17(H)mm



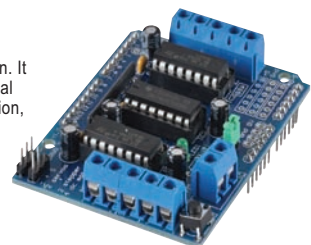
duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4460	\$29.95	\$26.95

L293D Motor Control Shield

This versatile board has 2 x 5V servo ports connected to the Arduino® high-resolution dedicated timer to ensure jitter-free operation. It is also capable of driving up to 4 bi-directional DC motors with individual 8-bit speed selection, or up to 2 stepper motors with single/two/interleaved steppings.

- 5V to 16VDC
- 4 H-Bridges: per bridge provides 0.6A (1.2A peak current) with thermal protection
- 2 external terminal power interface
- Dimensions: 70(L) x 53(W) x 20(H)mm



duinotech

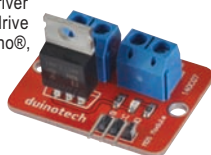
▲	Cat.	Qty 1+	Qty 5+
	XC-4472	\$12.95	\$11.35

ARDUINO®-COMPATIBLE MODULES & SHIELDS - MOTOR/POWER CONTROL (CONTINUED)

24V 5A MOS Driver Module

When connected to an Arduino®, this impressive MOS driver module accepts Pulse Width Modulated (PWM) input to drive 24VDC loads. Compatible with both Arduino® and pcDuino®, making it perfect for many projects such as lighting, DC motors, pumps and solenoid.

- 3.3V & 5V DC operation
- Output load voltage 0-24VDC
- Output current 5A
- Dimensions: 34(L) x 21(W) x 16(H)mm



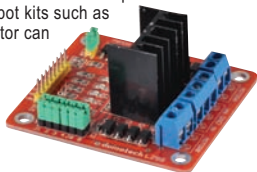
duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4488	\$7.95	\$7.15

Dual Motor Controller Module

Using the powerful L298N Dual Motor Driver, this module allows full control of two DC Motors or one stepper-motor. Features back-EMF and over-temperature protection, it is ideally suited to drive two-motor robot kits such as our KR-3130 and KR-3132. An on-board 5V regulator can also be used to power your project.

- Maximum output current: 4A
- Motor voltage: 3-30VDC
- Screw terminals for easy connections
- LEDs show power and output status
- Requires six digital pins
- 4 mounting holes
- Dimensions: 69(W) x 56(D) x 36(H)mm



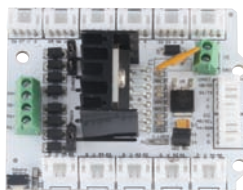
duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4492	\$14.95	\$13.45

Motor Shield

The motor shield is a perfect platform for robotics and mechanical applications. It enables the Arduino to drive two brushed DC motors or one 4-wire two-phase stepper motor. Based on the H-bridge driver Chip L298N motor driver integrated circuit, it requires a 6V to 15V power supply to power the motor and also includes an on-board 5V voltage regulator for powering the main Arduino board. Additional plug and play 2.00mm spacing Grove sensors can be connected to the 13 on-board Grove connectors.

- PWM speed control mode
- 4 Direction indicator lights
- Extra large heat sink
- Supports up to 14 servos



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4556	\$39.95	\$35.95	\$31.95



SHOW US YOUR BUILD COMPETITION

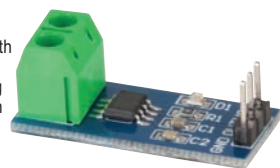
David, who shops at our Jaycar Strathpine store built:

I am working on an Arduino controlled slow motion motors to control model railway points (Turnouts). I have used I/O extenders to input into H-bridges that are connected to stall motors. The stall motors are what are used to switch the track points. The system can be expanded to control many points.

30A Current Sensor Module

Monitor the motors on your next robot project with the 30A Current Sensor Module. The module outputs a voltage proportional to current passing through the sense pins on the module. Based on the ACS712 sensor IC.

- Output ratio is 66mV/A
- Can measure negative and positive current flows
- Onboard power indicator
- 5V supply required
- Current path is isolated from logic pins
- Dimensions: 31 x 13 x 15mm



duinotech

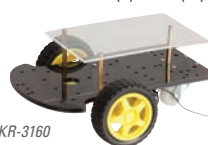
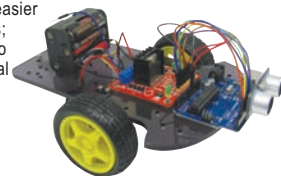
▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4610	\$9.95	\$8.75	\$7.75

2 or 4 Wheel Drive Motor Chassis Robotics Kit

These two kits make creating your own robot easier than ever. Available in 2WD and 4WD versions; each kit includes motors, wheels, tyres and two pre-drilled mounting plates. These kits are ideal for an Arduino or pcDuino robotics project.

- Pre-Drilled mounting plates.
- One motor & gearbox per wheel
- Motor voltage: 5-10VDC

Dimensions:
KR-3160 2WD: 215(L) x 160(W) x 100(H)mm
KR-3162 4WD: 240(L) x 160(W) x 100(H)mm



KR-3160



KR-3162



DIY

duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
2 Wheel	KR-3160	\$39.95	\$35.95	\$31.95
4 Wheel	KR-3162	\$49.95	\$44.95	\$39.95

DC Geared Motor with Rubber Wheel

DC geared motor with rubber wheel suitable for your Arduino® vehicle based/robotics applications. Also a suitable replacement for the 2WD (KR-3160) and 4WD (KR-3162) car chassis.

- DC motor: Working voltage 5-10VDC
- Gear ratio: 48:1
- 1 x plastic tyre wheel / 1 DC Gear Motor
- Bi axial can match speed encoder
- Convenient speed measurement
- Dimensions: 66(Dia.) x 28(W)mm



duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	YG-2900	\$9.95	\$8.75	\$7.75

Pan & Tilt Action Camera Bracket Mount for 9G Servos

This camera bracket mount is the easy way to add pan and tilt functionality to your next robot or Arduino project. Add two 9G servos (YM-2758) to complete assembly. The clips on the front are designed for an action camera to clip straight in. Or even mount an XC-4442 Ultrasonic Sensor and create an Arduino controlled sonar, or an XC-4478 Accelerometer to create a levelling gimbal. Easy to assemble

- Clamp for servo wires
- Servos not included
- Dimensions: 35 x 55 x 35mm (Assembled)



duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4618	\$4.95	\$4.45	\$3.95

9G Micro Servo Motor

Micro servo motor, perfect for use with XC-4618 Pan and Tilt bracket. Small enough to connect directly to an Arduino Board for experimenting.

- 3.5V- 6V Supply Voltage
- 500 degrees/second at 6V
- 1.6kg.cm at 4.8V
- Dimensions: 30 x 30 x 10mm
- Cable Length: 250mm



duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM-2758	\$9.95	\$8.75	\$7.75

ARDUINO®-COMPATIBLE MODULES & SHIELDS - INPUT/CONTROL

With any Arduino project, there'll be a point where you need to provide some input to tell it what to do. From steering a robot in real-time to changing a setting occasionally, there's a shield or module that will help you control your sketch.

BUILD YOUR OWN LED TESTER WITH ARDUINO®

A handy little tool that can help you out if you work with LEDs, especially if you are always trying to work out the right resistor to make them work. The idea has been inspired by Dave Cook's model at <http://robotroom.com/LED-Tester-Pro-1.html>. We have written the code from scratch to suit the parts we have available in the duinotech range.

- Adjustable test current
- Displays LED Forward Operating voltage
- Calculates ideal resistor & gives cat. number for a design voltage and current
- Only 3 discrete components to be soldered
- Detachable shields - pull it apart & use for other projects



WHAT YOU MAY NEED:

duinotech Uno Board	XC-4410
Prototyping Shield	XC-4482
LCD and Pushbutton Shield	XC-4454
39R 1/2W resistor	RR-0538
10R 1/2W resistor	RR-0524
470uF 16V electrolytic capacitor	RE-6194



Finished project

STEP-BY-STEP PROJECT INSTRUCTIONS AND CODE VISIT
WWW.JAYCAR.COM.AU/DIY-ARDUINO-LED-TESTER

Keypad Shield with LCD

Comes with a built-in 16 character by 2 line LCD display with backlight, this six push button keypad allows you to create a user friendly interface for your project. The keypad consists of up, down, left, right, select and also a reset button. Perfect to use as a selection menu.

- 16 Characters x 2 lines (32 Characters)
- Contrast adjust knob
- LED Backlight
- 4 Bit Arduino LCD Library
- Dimensions: 80(W) x 58(D) x 20(H)mm



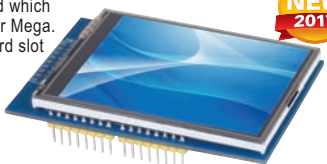
duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 5+
	XC-4454	\$19.95	\$17.95	\$15.95

240x320 LCD Touch Screen for Arduino

A large, colourful touch display shield which piggy-backs straight onto your Uno or Mega. Display photos from the Micro SD card slot on the display to create a slick and professional-looking project.

- 320x240 pixel resolution
- Fast Parallel interface
- Micro SD Card slot
- Resistive touch interface
- Dimensions: 77(L) x 52(W) x 19(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4630	\$29.95	\$26.95	\$23.95

XY Joystick Module

This handy module gives you X & Y axis control for your Arduino project. The board is interfaced through 5 pin header and provides a small game-pad style joystick. There is also a tactile switch when you push the stick down.

- Operating Voltage: 3-5VDC
- Digital output for tactile switch.
- X & Y axis analog outputs.
- Dimensions: 47(L) x 25(W) x 32(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4422	\$5.95	\$5.35	\$4.75

Touch Shield

The MPR121 IC is a great way to build simple capacitive touch interfaces, and now it's even easier to incorporate into your Arduino projects with the touch shield. The touch shield has 9 capacitive touch pads, with headers for the remaining 3 electrode connections. With this shield you can have a total of 12 touch sensitive buttons. An on-board logic level converter allows it to work with 5V and 3.3V Arduino boards. Simply solder on some header pins and stack it on to your Arduino for a convenient input device.



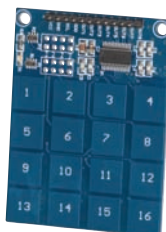
duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4551	\$39.95	\$35.90	\$31.90

16 Key Touch Keypad Module

A compact 16 key touch interface for your Arduino project, based on the TTP229 capacitive touch sensor IC. Use the module as it is, or extend wires from the pads to create external touch pads.

- Works on 2.4-5.5V
- Onboard power indicator
- Two wire serial data interface
- Dimensions: 65 x 50 x 12mm

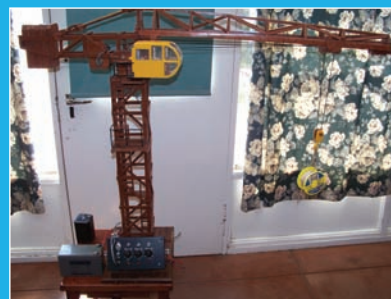


duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4602	\$9.95	\$8.75	\$7.75

SHOW US YOUR BUILD COMPETITION

Geoffrey, who shops at our Jaycar Cheltenham store built:



“ The 1m tall model crane was crafted by my neighbour from Redgum posts. It uses 3 x Jaycar 12V DC gearhead motors & a battery. I built the 100% Jaycar sourced control box using Duinotech XY joysticks to trigger 5V reed relays which trigger 12V car horn relays to power the crane via DPDT fwd/rev switches. ”

RELATED PRODUCTS

FROM
\$17.95
TH-1781



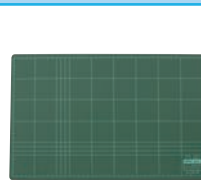
ANTISTATIC PRODUCTS P217

FROM
\$7.95
TD-2122



HEATSINK HOLDER P264

FROM
\$12.95
HM-8100



BENCHTOP WORK MAT P221

FROM
\$119.00
QM-3548



MAGNIFIERS P224

ARDUINO®-COMPATIBLE MODULES & SHIELDS - DISPLAYS

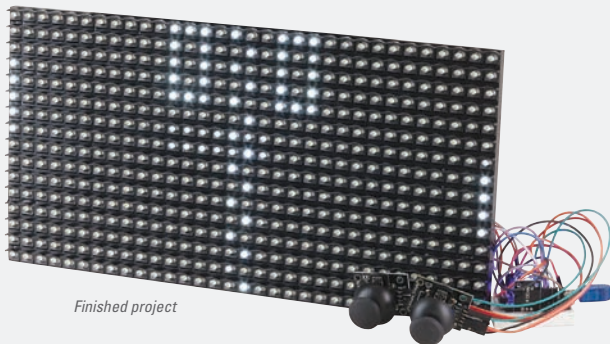
One of the most useful things a device can do is communicate information to us- our smartphones wouldn't be much use without their screens! Your Arduino is much the same, and most projects require some information to be communicated about the sensors they're reading, or how they're doing at the little task we've set them to. Here's a guide to the many different displays that make up the Arduino range, and some tips on choosing the best one for your application. Whether it be reading out a single number or some brief words, or even a complex graphical display, there's one to suit your project.

MAKE YOUR OWN PONG GAME WITH ARDUINO®

Create your own version of the classic Pong game with one of our super bright LED matrix boards and an Arduino Nano. Make a stylish talking point for your wall or coffee table, or just a fun game to play. Easy to assemble with duinotech parts & no soldering, this retro project is something all ages can enjoy.

WHAT YOU WILL NEED:

duinotech Nano	XC-4414
LED Dot Matrix Displays	XC-4622 or XC-4621
duinotech Joystick Modules	XC-4422 (2x)
Buzzer Module	XC-4424
Mini Breadboard	PB-8817
Plug to Socket Linker	WC-6028
Resistor Pack	RR-0596



Finished project

STEP-BY-STEP PROJECT INSTRUCTIONS AND CODE VISIT:
WWW.JAYCAR.COM.AU/DIY-PONG-GAME

128x128 LCD Screen Module

A compact Colour TFT-LCD display supporting 16 bit colour at 128x128 pixels, and only needing six pins for full control. Features ST7735 Chipset.

- SPI interface
- Separate LED backlight control
- Mounting holes
- Dimensions: 43(L) x 30(W) x 12(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4629	\$15.95	\$13.95	\$12.45

240x320 LCD Touch Screen

A large, colourful touch display shield which piggy-backs straight onto your Uno or Mega. Display photos from the Micro SD card slot on the display to create a slick and professional-looking project.

- 320x240 pixel resolution
- Fast Parallel interface
- Micro SD Card slot
- Resistive touch interface
- Dimensions: 77(L) x 52(W) x 19(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4630	\$29.95	\$26.95	\$23.95

STORE DETAILS

For store locations and opening hours see the back cover of this catalogue or visit our website.



RGB LED Cube Kit without Driver

Here's a stunning piece of art-meets-illumination that you can build yourself. Features 64 individually addressable RGB LEDs arranged as a 4x4x4 matrix. Sleek white PCBs give the completed project an ethereal appearance that is sure to enchant all who behold it.

- Requires XC-4498 RGB LED driver board



NEW 2017

duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4624	\$49.95	\$44.95	\$39.95

Acrylic Enclosure for XC-4624 RGB LED Cube

This enclosure is made from tough 2.5mm acrylic, and houses the XC-4624 LED Cube Kit. It protects it from damage, and makes it look great!



NEW 2017

duinotech

SPECIFICATIONS	XC-4625
Weight	115g
Dimensions	82 x 82mm, 100 x 70mm
Thickness	2.5mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4625	\$19.95	\$17.95	\$15.95

RGB LED Strip Module

Strip of eight RGB LEDs which can be controlled by a single Arduino pin. Up to 1000 LEDs can be daisy chained and run from one pin.

- 5V supply.
- Eight RGB LEDs
- Each channel has 256 brightness levels
- Current draw 500mA per module maximum
- 54mm x 10mm x 3.5mm



NEW 2017

duinotech

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4380	\$9.95	\$8.95	\$7.95

Monochrome OLED Display Module

A tiny Arduino compatible 128 x 64 pixel OLED display. Monochrome graphics with wide viewing angle and I2C interface.

- SSD1306 Chipset
- 22mm x 22mm x 12mm



NEW 2017

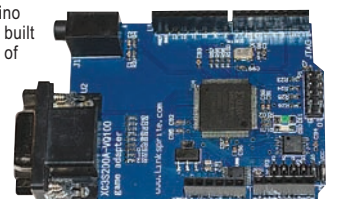
duinotech

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4384	\$29.95	\$26.95	\$23.95

Gameduino

Gameduino is a game adaptor for Arduino (or anything else with an SPI interface) built as a single shield that stacks up on top of the Arduino and has plugs for a VGA monitor and stereo speakers. The sound and graphics are definitely old-school, but thanks to the latest FPGA technology, the sprite capabilities are a step above those in machines from the past. The adaptor is controlled via SPI read/write operations, and looks to the CPU like a 32Kb RAM.

- Video Output 400x300 pixels in 512 colours
- Compatible with any standard VGA monitor (800x600 @ 72Hz)



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4550	\$84.95	\$76.45	\$67.95

ARDUINO®-COMPATIBLE MODULES & SHIELDS - DISPLAYS (CONTINUED)

Keypad Shield with LCD

Comes with a built-in 16 character by 2 line LCD display with backlight, this six push button keypad allows you to create a user friendly interface for your project. The keypad consists of up, down, left, right, select and also a reset button. Perfect to use as a selection menu.

- 16 Characters x 2 lines (32 Characters)
- Contrast adjust knob
- LED Backlight
- 4 Bit Arduino LCD Library
- Dimensions: 80(W) x 58(D) x 20(H)mm



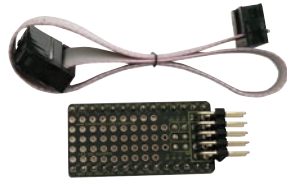
duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 5+
	XC-4454	\$19.95	\$17.95	\$15.95

OLED Stick

Use the OLED Stick to break out the LeoStick Arduino-compatible board (XC-4266).

- Prototyping area to add your own parts
- Breakouts for all LeoStick I/O pins
- Dimensions: 45(W) x 19(H) x 16(D)mm



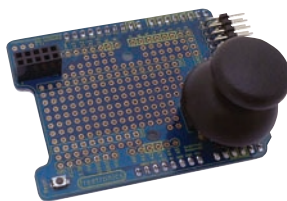
Note: LeoStick sold separately

▲	Cat.	Qty 1+	Qty 5+
	XC-4245	\$15.95	\$14.35

OLED Shield

Connect a small display module like our XC-4616 or XC-4629 to your Arduino using this handy shield, which also provides joystick input and a Piezo module for sound output. Display menus on the screen, use the joystick for selection, and give audible feedback. Display module sold separately.

- Analogue joystick with push-to-click, great for games or on-screen menus
- Piezo module for sound feedback
- Large prototyping area to add your own parts
- Dimensions: 75(W) x 54(H) x 46(D)mm



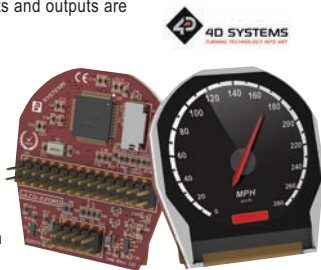
▲	Cat.	Qty 1+	Qty 5+
	XC-4269	\$33.95	\$29.45

Intelligent 1.3" Round LCD Module

This innovative circular display is ideally suited to graphical gauges, needle-meters and robotics projects. This display is easy to program and interface to your project with 4D systems free Workshop-4-IDE software. A 2GB microSD card is provided to store graphical elements. Additional inputs and outputs are available to augment your project.

See our website for full feature list.

- Resolution: 220 x 220 (Round)
- Colours: 65K
- 16 GPIO pins
- 4 Analog Inputs
- Up to 6 PWM outputs.
- Up to 3 SPI ports
- Up to 4 Serial TTL ports
- Up to 3 I2C ports
- PWM Audio output, play .WAV files from SD card.
- Dimensions: 43(L) x 47(W) x 14(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4284	\$159.00	\$142.95	\$126.95

I²C RGB Dot Matrix Driver Module

A full colour RGB display driver designed to drive a tri-colour 8x8 dot matrix. Driven by an ATmega328P (The same chip as the Arduino), this module communicates with your project via I²C. Multiple modules can be daisy chained together to make a longer sign or scrolling display.

- Operating Voltage: 5VDC
- Microcontroller: ATmega328
- Display Controller: DM163 + M54564FP
- ICSP header
- Daisy-Chainable
- Dimensions: 66(L) x 60(W) x 12(H)mm



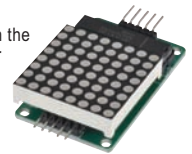
duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4498	\$44.95	\$40.45	\$35.95

8 x 8 LED Dot Matrix Module

A 64 x red LED matrix, this module is easily controlled with the LedControl library. Display your own custom characters, or use multiple modules together to make a scrolling display.

- Operating Voltage: 5VDC
- Protocol: SPI
- Chipset: MAX7219
- LED Colour: RED
- Dimensions: 62(W) x 32(H) x 14(D)mm



duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4499	\$7.95	\$7.15

8 x 8 Dot Matrix Driver Module

Use this module to drive an 8x8 dot matrix display. Driven by shift registers it requires only three inputs, plus power. Multiple modules can be directly daisy chained to make a longer display. Perfect for making a sign or scrolling message board. Headers are sized for a standard size 8x8 display, but it can drive any array if connected by jumpers. LED display not included.

- Operating Voltage: 5VDC
- Daisy-chainable.
- Chipset: 74HC595
- Dimensions: 72(L) x 69(W) x 12(H)mm



duinotech

▲	Cat.	Qty 1+
	XC-4532	\$16.95

LoL Shield

The LoL Shield is a charlieplexed LED matrix for the Arduino. LEDs are individually addressable so you can use it to display anything in a 9 x 14 grid. Scroll text, play games or display images, you can choose to use the LoL Shield Library or program the animation manually.

- 126 individually controlled LEDs
- Great DIY solder project



duinotech

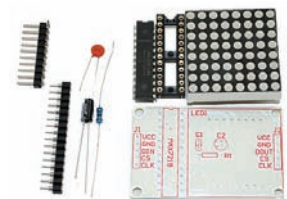
▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4546	\$39.95	\$35.90	\$31.90

LED Matrix Kit

This 8x8 LED matrix kit is powered by MAX7219 and it only needs 3 data lines and 2 power lines. It is easy to use and has adjustable brightness. Usually used as electronic display panel. Can be driven in parallel or serial and takes less than 0.1s to light up all 8 rows/columns so a dynamic display can be achieved in either connection.

Kit includes:

- Chipset: MAX7219
- Electrolytic capacitor: 10uF/25V
- Resistor: 10K
- Capacitance: 0.1uF
- Headers and receptacles
- LED Matrix dimensions: 52(L) x 34(W)mm



Not available at all stores but can be ordered

duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4592	\$29.95	\$26.95	\$23.95

Serial UART 16x2 LCD

The serial UART 16x2 LCD allows you to control a parallel based LCD over a single-wire serial interface. The serial LCD takes care of all the HD44780 commands allowing seamless integration with any micro that can communicate over a wide range of TTL serial baud rates. You can dim the backlight to conserve power if needed. There is also a potentiometer on the backpack to adjust the contrast.



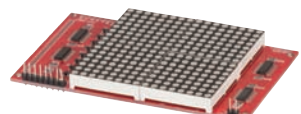
duinotech

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4601	\$39.95	\$35.90	\$31.90

16x16 LED Dot Matrix Module

A compact LED Matrix display featuring 256 individually addressable LEDs. Stack multiple boards side by side for a larger display.

- 5V supply required
- 74HC138 decoder IC's
- Includes jumper cables and header strips
- Dimensions: 113 x 64 x 12mm



duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4607	\$29.95	\$26.95	\$23.95

ARDUINO®-COMPATIBLE MODULES & SHIELDS - DISPLAYS (CONTINUED)

84 x 48 Dot Matrix LCD Display Module

These compact LCD displays are identical to those found in some old Nokia phones, and feature the PCD8544 chipset. An easy way to add a small black and white graphics display to your project.

- 8 pin plug
- SPI interface
- Four mounting holes
- Can work off 3.3V or 5V supply
- Needs 10k resistors for IO pins if running off 5V
- Dimensions: 44 x 44 x 13mm



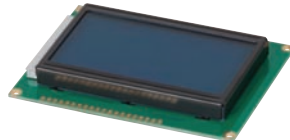
duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4616	\$19.95	\$17.95	\$15.95

128 x 64 Dot Matrix LCD Display Module

A larger display than XC-4616 with cool blue graphics on white background. Similar to the character LCDs with inbuilt character ROM, but the flexibility to show graphics as well.

- 5V supply
- 128 pixels wide by 64 pixels high display
- 8 bit, 4bit and serial interfaces available.
- White backlight



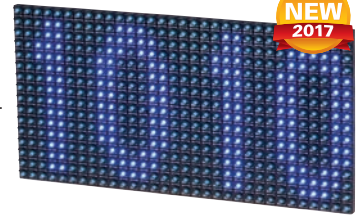
duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4617	\$29.95	\$26.95	\$23.95

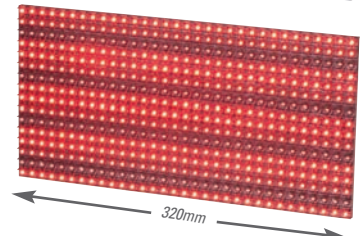
Large Dot Matrix LED Display Panels

Large 32 x 16 pixel LED display for your Arduino to create message boards, clocks, spectrum analysers, games for the home, office, shop, etc. The controller circuitry is built on-board so the display only needs six digital pins to control all 512 LEDs.

- 10mm LED pitch
- Can be daisy-chained for larger displays
- Use a 5V 3A Power Supply (MP-3480) for full brightness
- Dimensions: 320(W) x 160(H) x 30(D)mm



NEW 2017



duinotech

▲	Cat.	Qty 1+	Qty 5+
Red	XC-4621	\$29.95	\$26.95
White	XC-4622	\$39.95	\$35.95
Blue NEW	XC-4623	\$49.95	\$44.95

ARDUINO®-COMPATIBLE MODULES & SHIELDS - NFC/RFID

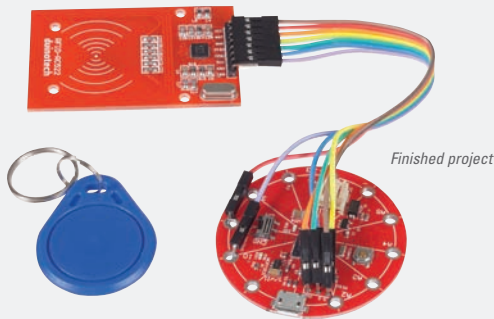
RFID technology is one of those things that is everywhere around us, including security systems, bank cards, public transport cards and even passports. Using a RFID module or shield you can read (and write to, depending on how secure they are) RFID cards and interact with NFC enabled items like mobile phones.

MAKE YOUR OWN RFID PASSWORD TYPER PROJECT

Tired of typing your password every time you need to log into your computer? Then we have just the thing for you. Carry around an RFID tag (or even use a card you might already have in your wallet), and simply wave it over the reader. Your password is typed for you! Wave the card again, and if you are using Windows, your computer is locked. Some soldering, assembly and programming required.

WHAT YOU WILL NEED:

Lilypad Board	XC-4620
RFID Read & Write Kit	XC-4506
Plug-Socket Jumper Leads	WC-6028

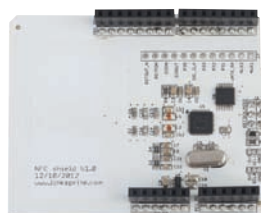


SEE STEP-BY-STEP INSTRUCTIONS AT WWW.JAYCAR.COM.AU/RFID-PASSWORD-TYPER

NFC Shield

Brings Near Field Communication technology to your Arduino project. Similar to RFID, NFC allows reading of cards, tags and Smart Posters when they come in close contact. The technology has many applications including quick Bluetooth pairing, attendance recording, authentication or even Smart Cashless purchases. Comes with both the NFC shield and also a rewritable tag.

- Operating Voltage: 5V
- Interface: SPI
- Supported Card: Mifare One
- Maximum Communication Distance: 29mm
- Dimensions: 69(L) x 56(W) x 18(H)mm



duinotech

Not stocked at all stores but can be ordered

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4542	\$79.95	\$71.95	\$63.95

RFID Door Lock Shield

This shield allows your Arduino to control a door lock using an electric strike plate and one of a number of commonly available RFID modules. Based on a project in the book Practical Arduino, which includes extensive documentation. Example source code online.

- Supported readers include ID12, ID20, RDM630, RDM680, HF MultiTag, and many others
- Connections for RFID reader module, external status LEDs, and manual release button (not included)
- Output to control 12V electric door strike
- Power pass-through jumper
- Reset button wired through to Arduino reset pin
- Blue "Arduino power" LED
- Green "External power" LED
- Red "Strike plate activated" LED
- Prototyping area
- Dimensions: 49(W) x 54(D) x 27(H)mm



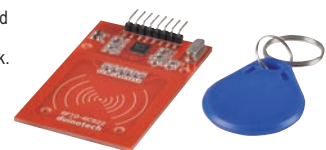
NEW LOW PRICE

▲	Cat.	Qty 1+
	XC-4215	\$19.95

RFID Read & Write Kit

This RFID module allows you to both read and write MiFare-Type RFID cards. Create your own contactless security lock. Includes one credit-card style tags and one key-fob style tag.

- Operating Voltage: 3.3V
- Communications Protocol: SPI
- RFID Protocol: MiFare
- Includes 1 x card and 1 x fob
- Dimensions: 66(L) x 40(W) x 7(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+
	XC-4506	\$19.95	\$17.95

Spare RFID Card & Fob

SPARE 13.56MHZ RFID/ NFC FOB - ZZ-8970

Suits XC-4506, XC-4542 and some Android phones.

- 1kB data space
- Fob Body 40mm x 32mm x 4mm plus keyring



SPARE 13.56MHZ RFID NFC CARD - ZZ-8978

Suits XC-4506, XC-4542 and some Android phones. Plain white card with 1kB data space.

- 85mm x 54mm x 1mm



NEW 2017

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Fob	ZZ-8970	\$4.95	\$4.45	\$3.95
Card	ZZ-8978	\$3.95	\$3.55	\$3.15

ARDUINO®-COMPATIBLE MODULES & SHIELDS - DATA STORAGE

Arduinos have a fairly limited amount of storage (certainly compared to the terabytes of data that can be stored on some hard drives), so the shields and modules below can be used to provide an extra place to log data or store resources for your sketch. You might even use one of them to write to a removable card to make it easy to get data to and from a computer.

MAKE YOUR OWN CHRISTMAS COUNTDOWN CLOCK

This fun to build clock displays the time and date, and most importantly the number of days until Christmas. When the sound module is triggered, a voice (it might be Santa) announces the number of days and weeks until Christmas followed by a Christmas greeting, keeping everyone entertained. There is some soldering and careful assembly required to complete this project.

WHAT YOU WILL NEED:

Uno Main Board	XC-4410
128x64 Dot Matrix LCD Display	XC-4617
Datalogging Shield	XC-4536
2GB microSD Card with Adaptor	XC-4998
Sound Sensor Module	XC-4438
Amplifier Module	XC-4448
Miniature Speaker	AS-3004
1KΩ Potentiometer	RP-7504
40 Way Header Strip	HM-3212
100nF Polyester Capacitor	RM-7125



Finished project

SEE STEP-BY-STEP INSTRUCTIONS AT JAYCAR.COM.AU/CHRISTMAS-CLOCK

Data Logging Shield

Extremely easy to set up. Use this datalogging shield to store your data to files on any FAT16 or FAT32 formatted SD card, or have it to be read by any plotting, spreadsheet or analysis program. All data stored is timestamped in real-time so you know precisely what happened when! Uses a 3.3V converter to avoid damaging your SD card. Includes a 3V button battery.

- Stackable headers
- Reset button
- Changeable CR1220 battery
- 102 solder pads
- Dimensions: 43(L) x 17(W) x 9(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4536	\$19.95	\$17.95	\$15.95

Sim Card Breakout Board

This is a full 8-pin breakout for the SIM socket allowing direct access to SIM communication. Features a Lock and Open switch.



Not available in all stores but can be ordered

duinotech

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4596	\$19.95	\$17.95	\$15.95

See page 403 for SD Cards

SD Card Shield

The SD card shield adds storage to your Arduino project. It supports SD, SDHC, or microSD TF cards. Use the on-board toggle switch to select the SD card type. It just uses the SPI ports of Arduino, and you can plug other shields on it. There are I²C header and UART header on board.

- Operation Voltage: 3.3V
- Dimensions: 57(L) x 45(W) x 19(D)mm

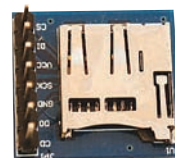


duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4552	\$24.95	\$22.45	\$19.95

microSD Transflash Breakout Board

Breakout board for the microSD socket that is not much bigger than your fingernail. Compatible with the SPI interface found on any SD card, this tiny form factor was created for cell phone storage and is perfect for your next MP3 project! Board comes fully assembled and tested.



Limited Stock

duinotech

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4597	\$19.95	\$17.95	\$15.95

SD Card Interface Module

Features 5V and 3.3V power inputs and resistors to allow safe on either IO voltage.

- Push-pull style SD Card Socket
- Works with inbuilt Arduino Libraries
- 52mm x 31mm x 12mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4386	\$9.95	\$8.95	\$7.95



SHOW US YOUR BUILD COMPETITION

Michael, who shops at our Jaycar O'Connor store built:

My Cessna 172 Simulator uses
3 x Arduino's to drive the Autopilot,
Nav/Com and ADF/DME panels.
Software is written using Arduino libraries.
Panels are all home built.
The interface to FSX is via Link2FS.
Development time so far is just over
2 years with many more hours required to
finish the project.

ARDUINO®-COMPATIBLE MODULES & SHIELDS - CLOCK/TIMER

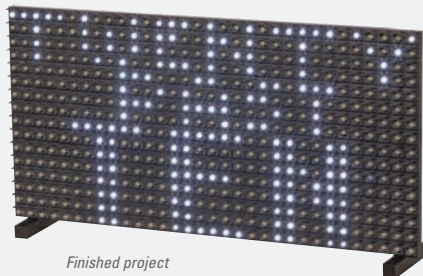
If you have a project that needs to keep time, even when your Arduino is powered down, then check out these modules and shields. Sporting a 'Real Time Clock', they have a small battery backed IC which keeps track of the seconds, minutes, hours, days and even years. Operation times of a year can be expected- even longer if the project has external power.

MAKE YOUR OWN MATRIX MULTI CLOCK WITH ARDUINO®

A very cool and useful talking point for your wall, work desk or bedside table. Personalise and change the clock mode to suite your mood or program your own fun message. Code includes six different styles.

WHAT YOU WILL NEED:

duinotech Nano Board	XC-4414
Pre-Punched Experimenter's Board	HP-9550
White LED Matrix	XC-4622
Real Time Clock Module	XC-4450
Arduino Compatible Stackable Headers	HM-3208
Micro Tactile Switch	SP-0601
16 Way Rainbow Ribbon Cable (1m)	WM-4516



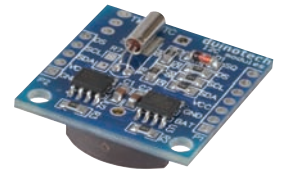
Finished project

SEE STEP-BY-STEP INSTRUCTIONS AT JAYCAR.COM.AU/DIY-ARDUINO-CLOCK

Real Time Clock (RTC) Module

This tiny little module will keep accurate time using the supplied CR2032 button battery. Great to use with all of your Arduino® projects that require the use of the date and time such as clocks, data-loggers and timers.

- Using a 24C32 32k EEPROM
- Supplied with a CR2032 battery
- Read and write functionality
- Usage time approx. 1 year fully charged
- Dimensions: 28(L) x 28(W) x 7(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4450	\$5.95	\$5.35	\$4.75

Data Logging Shield

Extremely easy to set up. Use this datalogging shield to store your data to files on any FAT16 or FAT32 formatted SD card, or have it to be read by any plotting, spreadsheet or analysis program. All data stored is timestamped in real-time so you know precisely what happened when! Uses a 3.3V converter to avoid damaging your SD card. Includes a 3V button battery.

- Stackable headers
- Reset button
- Changeable CR1220 battery
- 102 solder pads
- Dimensions: 43(L) x 17(W) x 9(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4536	\$19.95	\$17.95	\$15.95

ARDUINO®-COMPATIBLE MODULES & SHIELDS - I/O EXPANSION

There will eventually come a time when your Arduino project will 'run out of pins'. While you might be able to upgrade your main board to a Mega, if that's not an option you can look at the following modules and shields to add extra controllable outputs with ease.

Sensor Expansion Shield

This shield makes connecting 3-pin analog sensors a snap. Each of the 5 x analog inputs is broken out to individual 3-pin connectors. There is also a 4-pin communications port that can be set for either UART or I²C. Each of the digital pins is also given a 3-pin vertical header. Plug and Play connection for servos, sensors, switches and more!

- Dimensions: 68(W) x 57(D) x 18(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4452	\$10.95	\$9.85	\$8.75

I/O Expander for Arduino/pcDuino

Expand the number of I/Os of an Arduino board. It is based on the chipset MCP23017 which communicates with Arduino through an I²C interface. It adds GPIOA and GPIOB, a total of 16 I/Os. There are two LEDs and two buttons on the shield. User can decide if they want to use the built-in LED/buttons or not by using the 4-bit DIP switch.



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4547	\$29.95	\$26.90	\$23.70

8 x 8 Dot Matrix Driver Module

Use this module to drive an 8x8 dot matrix display. Driven by shift registers it requires only three inputs, plus power. Multiple modules can be directly daisy chained to make a longer display. Perfect for making a sign or scrolling message board. Headers are sized for a standard size 8x8 display, but it can drive any array if connected by jumpers. LED display not included.

- Operating Voltage: 5VDC
- Daisy-chainable.
- Chipset: 74HC595
- Dimensions: 72(L) x 69(W) x 12(H)mm



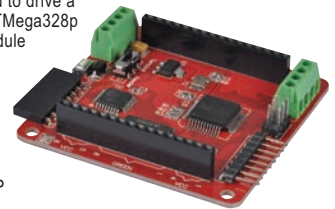
duinotech

▲	Cat.	Qty 1+
	XC-4532	\$16.95

I²C RGB Dot Matrix Driver Module

A full colour RGB display driver designed to drive a tri-colour 8x8 dot matrix. Driven by an ATmega328p (The same chip as the Arduino), this module communicates with your project via I²C. Multiple modules can be daisy chained together to make a longer sign or scrolling display.

- Operating Voltage: 5VDC
- Microcontroller: ATmega328
- Display Controller: DM163 + M54564FP
- ICSP header
- Daisy-Chainable
- Dimensions: 66(L) x 60(W) x 12(H)mm

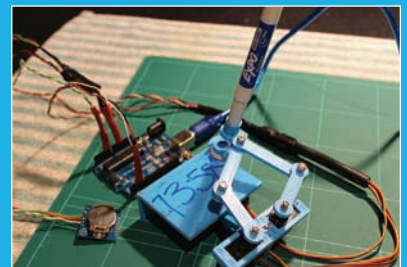


duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4498	\$44.95	\$40.45	\$35.95

SHOW US YOUR BUILD COMPETITION

Brett, who shops at our Jaycar Thomastown store built:



Built a plot clock that writes out the time every minute, also attached a timekeeper to allow the clock to keep time if we lose power.

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service. We're here to help.

ARDUINO®-COMPATIBLE MODULES & SHIELDS - MAGNETIC

You'd be surprised at how useful a magnetic sensor can be, especially if you want to sense something without touching it. The duinotech range of magnetic sensors spans simple proximity sensors to detect the presence of a magnet to three dimensional compass sensors for detecting magnetic field directions and strength.

Hall Effect Sensor

UGN3503U HALL EFFECT SENSOR IC

A miniature sensor to accurately track extremely small changes in magnetic flux density - changes generally too small to operate Hall effect switches. Applications include notch sensor, current monitor, gear tooth sensor, etc.



SPECIFICATIONS	ZD-1902
Operating voltage	4.5 - 6VDC
Supply current	Typ. 9mA
Output voltage	Typ. 2.5V DC
Output resistance	50Ω
Size	4.5(W) x 4.5(H) x 1.5(D)mm

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
UGN3503U	ZD-1902	\$7.75	\$6.90	\$6.15

See our website for 1,000's of datasheets for our components

Hall Effect Sensor Module

Sense magnetic presence, rotating wheels and magnets, door sensors and any other magnets near this device.

- Output turns on at 30Gauss(3mT) and off at 10Gauss(1mT)
- Operating Voltage: 4.5 - 28VDC
- Schmitt-Trigger output.
- Dimensions: 20(W) x 15(L) x 3(H)mm



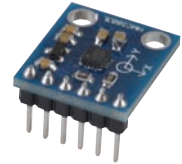
duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 5+
	XC-4434	\$4.95	\$4.45	\$3.95

3 Axis Digital Compass Module

This module allows you to take accurate compass bearings, no matter how it is orientated. Easily interfaced via I²C.

- Operating Voltage: 5VDC
- Resolution: 12bits
- Interface: I²C
- Includes 5V - 3V level shifter.
- Dimensions: 20(L) x 16(H) x 5(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4496	\$13.95	\$12.45	\$10.95

ARDUINO®-COMPATIBLE MODULES & SHIELDS - LED/LASER

Sometimes when you need to provide output from a project, a full-on display is too much, or takes up too much space.

The modules below are great if you want to your sketch to show what's going on with a simple 'GREEN IS OK' type of indication.

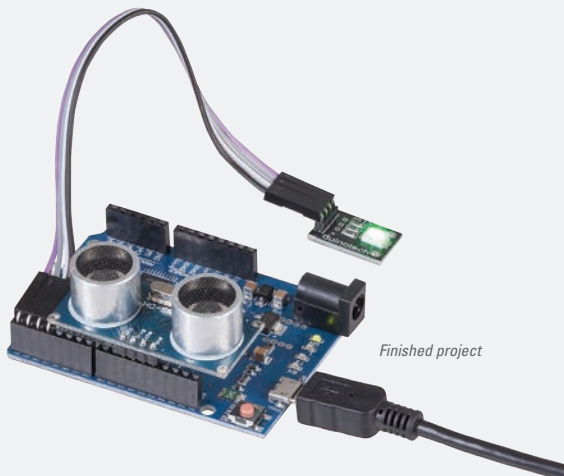
If you want to shine some light and a basic LED is not enough, look at the higher powered XC-4468 LED or XC-4490 Laser modules.

MAKE AN ULTRASONIC PARKING ASSISTANT WITH ARDUINO®

Here is a great project to help you park your car in your garage. It simply uses an ultrasonic distance sensor to measure how far away the car is from the sensor, and then light up an RGB LED module to let you know how close you are. A simple job perfectly suited to an Arduino® project.

WHAT YOU WILL NEED:

duinotech Classic (Uno)	XC-4410
Dual Ultrasonic Sensor Module	XC-4442
150mm Plug to Socket Jumper Leads - 40 Pieces	WC-6028
Arduino® Compatible RGB LED Module	XC-4428



Finished project

SEE STEP-BY-STEP INSTRUCTIONS AT
WWW.JAYCAR.COM.AU/ULTRASONIC-PARKING-ASSISTANT

PRODUCT DATA

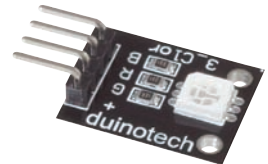
We now have so much data and fact sheets we cannot fit it all here!
Check our website for over
3,500 pages of data!



RGB LED Module

Using a 5050 RGB LED, by adjusting a PWM signal on the three primary colours the user can gain the full colour spectrum. This tiny module can be interfaced with a variety of microcontrollers.

- 3.3V to 5V operation
- 4 pin header
- Common ground LED
- Dimensions: 25(L) x 15(W) x 2(H)mm



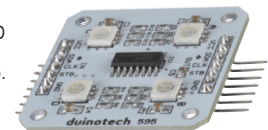
duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4428	\$4.95	\$4.45	\$3.95

4 x RGB LEDs Module

Display a full range of colours with this RGB LED module. The 4 x SMD 5050 LEDs onboard are super bright and controlled by the 74HC595 chip.

- 5VDC operation
- Colours: RGB
- Dimensions: 48(L) x 38(W) x 5(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4466	\$13.95	\$12.45	\$10.95

3W LED Module

A high brightness LED in an easy to use modular package. Includes a PWM input for brightness control.

- Operating Voltage: 5VDC
- Power Consumption: 3W
- Light Output: 200 Lumens
- Colour Temperature: 6000K
- Dimensions: 30(L) x 23(W) x 6(H)mm



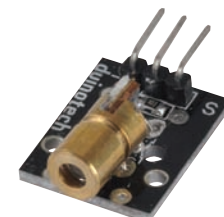
duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4468	\$10.95	\$9.85	\$8.75

Red Laser Diode Module

Need a red laser light for your latest project? Here it is! Everything you need to drive the laser diode is included on the board. Just connect it to 5VDC and you're good to go! Use it with our light sensor module XC-4446 to make a laser tripwire.

- Operating Voltage: 5VDC
- Output power: <1mW
- Wavelength: 650nm(Red)
- Dimensions: 45(W) x 23(D) x 10(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 5+
	XC-4490	\$4.95	\$4.45	\$3.95

ARDUINO®-COMPATIBLE MODULES & SHIELDS - COMPASS/ORIENTATION/GPS

We pretty much take for granted many of the sensors that are on our phones these days- compass, GPS, accelerometer, but did you know that you can also add similar features to your Arduino projects?

You could use a compass sensor to help guide your robot or an accelerometer to keep your Arduino controlled gimbal facing upright, or even provide a tilt-based user input device for next project.

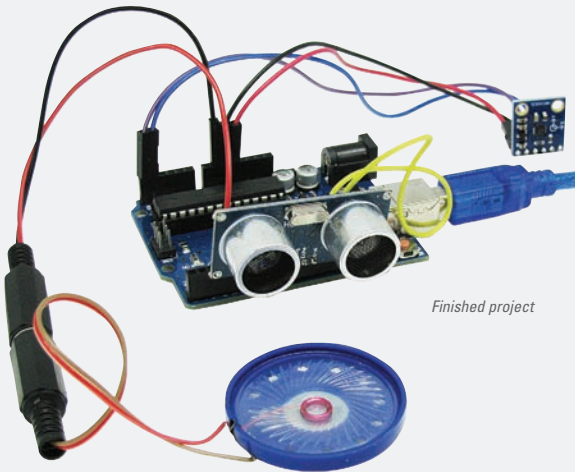
MAKE YOUR OWN ULTRASONIC DISTANCE READER WITH ARDUINO®

This project measures the distance in front of the sensor, establishes the compass bearing and distance and then reads it out aloud - it's the sort of thing that could be used to help a visually impaired person navigate

WHAT YOU WILL NEED:

duinotech Uno Board
 Arduino Compatible Ultrasonic Sensor
 Plug to Socket Jumper Lead 40 Pack
 Magnetic Compass Module
 Stereo Line Socket
 150R Resistor Pack of 8
 Stereo Headphones

XC-4410
 XC-4442
 WC-6028
 XC-4496
 PS-0134
 RR-0552
 AA-2090



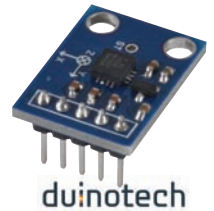
Finished project

SEE STEP-BY-STEP INSTRUCTIONS AT WWW.JAYCAR.COM.AU/DIY-UDCR

3-Axis Accelerometer Module

This module allows you to measure acceleration, detect impacts and determine orientation. Perfect for robotics projects.

- Protocol Analog: (1 Channel per axis)
- Measurement Range: +/-3g
- Operating Voltage: 3.3VDC - 5VDC
- Chipset: ADXL335
- Dimensions: 21(L) x 15(W) x 11(H)mm



▲	Cat.	Qty 1+	Qty 5+
	XC-4478	\$12.95	\$11.65

GPS Bee Breakout Board

GPS Bee, a SKM58 breakout that adds a Xbee compatible footprint for SKM58. The SKM58 Series with embedded GPS antenna enables high performance navigation in the most stringent applications and solid fix even in harsh GPS visibility environments. The 6-pin UART connector design is the easiest and convenient solution to be embedded in a portable device and receiver like PND, GPS mouse, car holder, personal locator, speed camera detector and vehicle locator.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4600	\$94.95	\$85.50	\$75.95

XBee Interface Shield

Break out your XBee compatible boards to the standard 2.54mm header spacing. Ideal for the XC-4600 GPS Bee.

- Pins marked on board
- Works with other XBee boards
- 20 pins in two rows
- Dimensions: 22 x 22 x 15mm

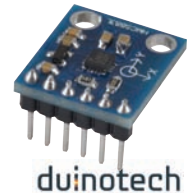


▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4608	\$4.95	\$4.45	\$3.95

3 Axis Digital Compass Module

This module allows you to take accurate compass bearings, no matter how it is orientated. Easily interfaced via I²C.

- Operating Voltage: 5VDC
- Resolution: 12bits
- Interface: I²C
- Includes 5V - 3V level shifter.
- Dimensions: 20(L) x 16(H) x 5(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4496	\$13.95	\$12.45	\$10.95

INTRODUCING CODE CAMP



Code Camp run 3-4 day school holiday programs to teach kids to code and build their very own iPhone apps!

- School holiday camps are for students 7 - 13 years old
- We've taught more than 15,000 kids to code!
- In school solutions for primary and secondary schools
- After school programs
- Professional learning sessions
- Code Camp runs in more than 100 Australian schools

www.codecamp.com.au

Code Camp began in December 2013, when Ben and Pete, tech startup entrepreneurs, set out on a mission to create a solution which could provide every Australian student with the opportunity to learn to code and build their very own apps. Today, it is more important than ever to learn these skills.



Why we teach kids to code

Learning to code is more than 'becoming a developer'.

Learning to code allows students to:

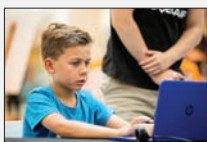
- Be creative with technology
- Develop logical thinking and problem solving skills
- Understanding of computational thinking

In addition, through 'app building' we also focus on:

- Game design
- Psychology of user experience
- Entrepreneurial mindset



More info: www.codecamp.com.au or 1300 CODE CAMP (1300 26 33 22)



"Not every student will become a developer, however, the problem solving, logic & computational thinking learned can be adapted to any role in any industry"

- Code Camp founders

We're not in NZ but you can check out (we have no affiliation with) Code Club Aotearoa (www.codeclub.co.nz) and Scratchpad (www.scratchpad.co.nz)

ARDUINO®-COMPATIBLE MODULES & SHIELDS - TEMPERATURE & ENVIRONMENT

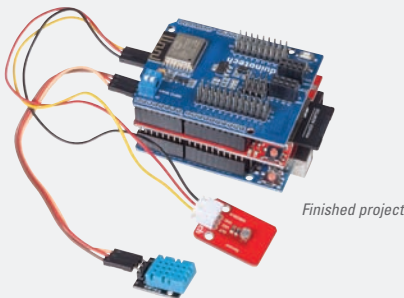
There's no shortage of Arduino weather station projects online, and with the duinotech range of sensor modules, you can create your own fully featured version. Alternatively, if you just want to check if the plants need watering or know if the sun is shining or how hot it is outside, we've got you covered with the range here.

MAKE YOUR OWN Wi-Fi ENVIRONMENTAL DATALOGGER

Another handy Arduino based tool to add to your workbench. The Environmental Datalogger measures temperature, humidity and light levels and logs it to an SD card with the time of the reading. The data is saved as a .csv file, opening straight into an Excel spreadsheet, for easy graphing and analysis. It also hosts a minimal web-server, allowing the log files to be downloaded over Wi-Fi. You can customise it to measure and log other data, turn it into a weather station, see how your home-brew beverage is going (how we use it), or add GPS to create a tracker. No doubt, you will agree, it's a really handy project!

WHAT YOU WILL NEED:

Uno Main Board	XC-4410
Wi-Fi Shield	XC-4614
Datalogging Shield	XC-4536
2GB Micro SD Card with SD Card Adaptor	XC-4998
Temperature & Humidity Sensor Module	XC-4520
Photosensitive LDR Module	XC-4446
Socket-Header Jumper Leads	WC-6026
Header Terminal Strip	HM-3211



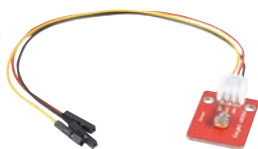
Finished project

SEE STEP-BY-STEP INSTRUCTIONS AT JAYCAR.COM.AU/WIFI-DATALOGGER

Photosensitive LDR Module

Measure light levels with this sensor module. This module uses a light dependant resistor to produce an output voltage that varies with light level. Connect it straight into your duinotech or other Arduino compatible board to build a night/day sensor, a sun tracker or combine it with our laser module XC-4490 to make a laser trip wire.

- Operating voltage: 3-5VDC
- Includes breakout cable
- Dimensions: 29(W) x 22(D) x 10(H)mm



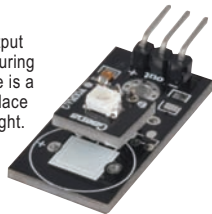
duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4446	\$5.95	\$5.35	\$4.75

Ultraviolet Sensor Module

This module will measure the UV light and adjust the output voltage depending on the UV intensity. Capable of measuring over a wide spectral range of 200nm-370nm, this module is a valuable addition for weather station projects or in any place which require stable and accurate measurement of UV light.

- Working Voltage 3-5V DC
- Output voltage 0-1200mV
- Current 0.06-0.1mA
- Response wavelength 200-370nm
- Working temperature: -20 to 85°C
- Dimensions: 43(L) x 13(W) x 8(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4518	\$37.95	\$34.15	\$30.35

Alcohol Sensor Module

Using a MQ series gas sensor, this module easily adds alcohol detection to your project. An analog output can be used to monitor changes in alcohol concentration, while a digital output is triggered when the concentration exceeds a pre set threshold. Build your own breathalyser or automate your home-brewing.

- Twin Analog and Digital Outputs.
- Adjustable sensitivity
- Operating voltage: 5VDC
- Dimensions: 50(L) x 20(W) x 13(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4540	\$9.95	\$8.75	\$7.75

MQ2 Gas and Smoke Sensor Module

Detects the concentration of flammable gas and smoke in the air and outputs its reading as an analog voltage. The sensor can measure concentrations of flammable gas of 300 to 10,000 ppm. With fast response and adjustable sensitivity, it is useful in quick detection of leaking gas including LPG, I-butane, methane, alcohol, hydrogen and smoke.

- Operation Voltage: 5V
- Operation Temperature: -20 to +50°C

Not available in all stores but can be ordered



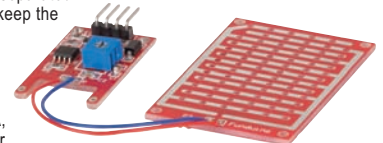
duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4543	\$19.95	\$17.70	\$15.70

Rain Sensor Module

Add another dimension to your Arduino weather project. This compact module can be used to detect rain, and can be separated into a sensor and control board to keep the important bits dry.

- 5V supply needed.
- Adjustable sensitivity
- LED indicator
- TTL level output can drive 100mA, enough for a small relay or buzzer
- Sensor: 50 x 35 x 1mm - Control: 47 x 26 x 6mm - Wire Length: 75mm



duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4603	\$9.95	\$8.95	\$7.95

Soil Moisture Sensor Module

Automate your garden with Arduino and use the Soil Moisture Sensor Module to detect when your plants need watering.

- Analog output
- Works on 3.3V or 5V
- Current less than 20mA
- Dimensions: 62 x 20 x 7mm



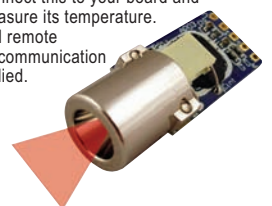
duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4604	\$4.95	\$4.45	\$3.95

IR Temperature Sensor Module

Remote temperature sensing for your Arduino! Connect this to your board and point it at a surface or heat source to remotely measure its temperature. This is our special version of the industrial infrared remote thermometer units with an onboard power supply, communication support and a software library and examples supplied.

- 3.3 to 5V operation
- -33 to +220°C measurement range, 1 second response time
- Free software library and examples
- On-board power supply & comms interface
- Dimensions: 38(W) x 14(H) x 12(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4260	\$44.95	\$40.45	\$35.95

Temperature Sensor Module

This module provides a simple way to measure temperature. The module outputs an analog voltage that varies directly with temperature. Connect it straight to one of your duinotech analog inputs.

- Operating voltage: 5VDC
- 210mm breakout cable included
- Dimensions: 33(W) x 22(D) x 9(H)mm



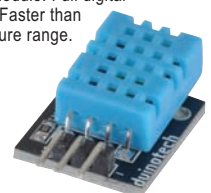
duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4494	\$5.95	\$5.35	\$4.75

DHT11 Digital Temperature & Humidity Sensor

Measure both temperature and humidity with this nifty module. Full digital operation so no analog to digital calibration is required. Faster than XC-4432, but less accurate and with a smaller temperature range. Use when expecting rapid changes in temperature.

- Arduino™ library available.
- Protocol: 1-Wire (Not Dallas 1-Wire, one data pin is required per sensor used)
- Operating Voltage: 3-5 VDC
- Temperature Range: 0 °C - 50 °C +/- 2 °C
- Humidity Range: 20 - 80% +/- 5%
- Sample Rate: 1Hz
- Dimensions: 52(W) x 20(L) x 13(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4520	\$9.95	\$8.75	\$7.75

ARDUINO®-COMPATIBLE MODULES & SHIELDS - PROTOTYPING/BREAKOUT

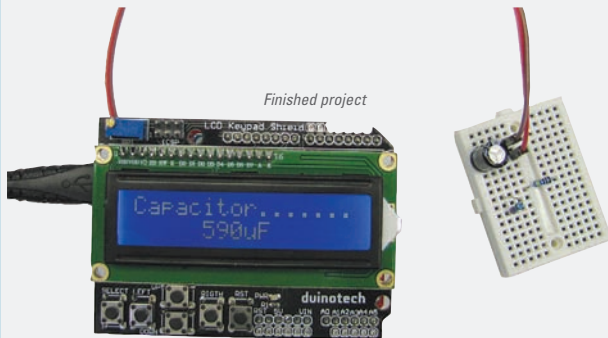
The following parts are ideal for taking that design that you've squashed onto a breadboard, and making it into something more permanent. With prototyping space, you can solder individual components or even whole modules together to create a custom shield that is much more robust.

MAKE YOUR OWN RESISTOR & CAPACITOR TESTER

If like us you're always having to sort through your junk drawer and have trouble with your colour codes, here's a handy project for you. This tester will try to work out whether you are connected to a resistor or a capacitor and then show you the relevant value. If it's a resistor, it'll also suggest the nearest resistor from the Jaycar 1/2W range. No more sorting through your draws blindly!

WHAT YOU WILL NEED:

Uno Board	XC-4410
Prototyping Shield	XC-4482
LCD and Pushbutton Shield	XC-4454
150R Resistor (1/2W)	RR-0552
1K2 Resistor (1/2W)	RR-0574
10K Resistor (1/2W)	RR-0596
Plug-Plug Jumper Leads	WC-6024



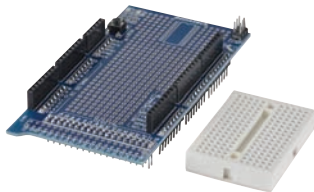
Finished project

SEE STEP-BY-STEP INSTRUCTIONS AT JAYCAR.COM.AU/RCT

Prototyping Shield for duinotech - MEGA

This shield gives you plenty of room to prototype your latest MEGA project. The stackable shield provides access to all of the MEGAs pins and plenty of solder pads to prototype on. A small solder-less breadboard is included for fast prototyping.

- Dimensions: 106(W) x 56(L) x 19(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 5+
	XC-4416	\$12.95	\$11.35

Breadboard Layout Prototyping Boards

A prototyping board that lets you transfer your breadboard design without having to rework it. Includes five holes on each side per row and power rails running the length of the board.

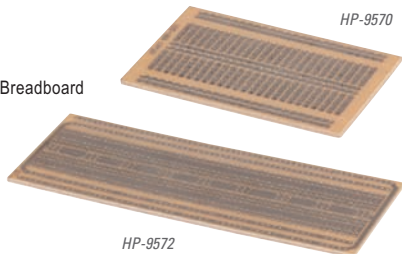
Two sizes to choose from.

SMALL:

- 25 rows
- 400 holes
- Similar layout to PB-8820 Breadboard
- 73mm x 47mm x 1.4mm

LARGE:

- 59 rows
- 862 holes
- Similar layout to PB-8815 Breadboard
- 155mm x 58mm x 1.4mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-9570	\$4.95	\$4.45	\$3.95
	HP-9572	\$9.95	\$8.95	\$7.95

Prototyping Shield

Drop this shield onto your Arduino and you have the perfect space for prototyping small circuits. Solder-pads are provided for all of the Arduino pins. A small breadboard is included and can be stuck to the top of the shield with the included tape. Headers are also included to connect common 1602-type text LCDs or a Nokia® 5110-type graphical LCD.

- Fully compatible with Arduino, duinotech LEONARDO, duinotech Classic and duinotech MEGA
- Solder less breadboard included
- LEDs for power and D13 status
- Dimensions: 68(L) x 53(W) x 12(H)mm



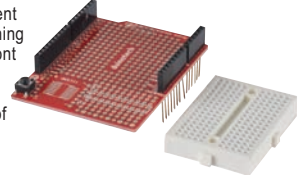
duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4480	\$8.95	\$8.05	\$7.15

Prototyping Shield

This stackable shield makes semi-permanent prototyping simple. When you want something more permanent than a breadboard, but don't want to make your own PCB, this shield is the answer. Provides solder-pad access to all of the Arduino's pins, and a large area of isolated pads.

- Includes reset button.
- SOIC-14 breakout, for surface mount ICs
- Dimensions: 68(L) x 53(W) x 10(H)mm



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4482	\$15.95	\$14.35	\$12.75

Screw Shield

The ScrewShield extends all pins of the Arduino out to 3.5mm pitch screw terminals. The screw terminal blocks allows sturdy, secure and dependable prototyping without the need for soldering.



duinotech

Limited Stock

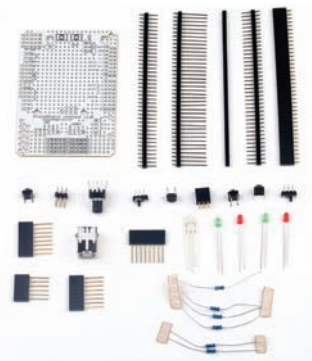
▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4553	\$29.95	\$26.95	\$23.95

Proto Shield Kit

Build your own Arduino shield using the compact and flexible Proto Shield kit. Solder together a limitless range of circuits and reuse it in all your Arduino projects. A standard 0.1" prototyping grid accepts commonly used through-hole parts and chips. You could also find a range of basic components are included to help you get started with your custom shield.

Contents:

- 1 x Arduino compatible Proto Board
- 1 x B type USB connector
- 1 x 40-pin 2.54mm male long header
- 1 x 40-pin 2.54mm female header
- 2 x 40-pin 2.54mm male header
- 1 x 40-pin 2.54mm spacer
- 3 x 8-pin 2.54mm female header
- 1 x 6-pin 2.54mm female header
- 1 x ISP female pin header
- 1 x ISP male pin header
- 1 x 10k Ohm rotary potentiometer
- 4 x 1k Ohm through-hole resistor
- 2 x 10k Ohm through-hole resistor
- 2 x 3mm Red through-hole LED
- 2 x 3mm Green through-hole LED
- 1 x 3mm dual colour through-hole LED
- 4 x Mini push button switch
- 2 x DPDT switch



duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4555	\$19.95	\$17.70	\$15.70

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* &

Sign-up in-store or online.

be rewarded with a \$25 Jaycoins Card once you reach 500 points!

*Conditions apply. See front of catalogue for details



ARDUINO®-COMPATIBLE MODULES & SHIELDS - PROGRAMMING/UPLOAD AND CUSTOM

If you feel like there isn't quite an Arduino main board or module that suits what you're trying to build, or your stack of shields is just too big, the parts below can help you make the next step towards custom building your own board. The various programmers will also allow you to explore the world beyond what the default Arduino IDE and bootloaders offers. Did you know you can even use the XC-4464 USB to Serial Adaptor to program the XC-4614 Wi-Fi Shield as though it was a stand-alone Arduino board?

MAKE YOUR OWN ISP* PROGRAMMER WITH ARDUINO®

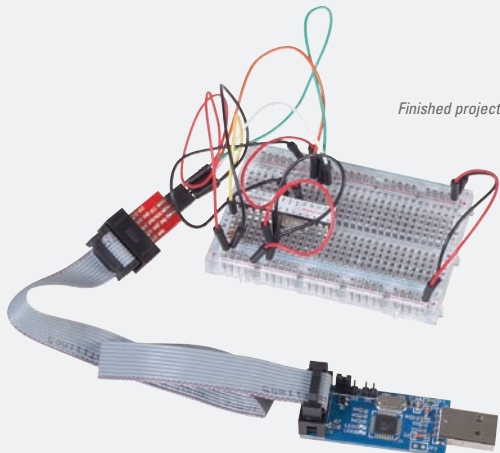
A handy tool to have in your Arduino® Kit. Aside from giving you a faster way of programming your Arduino® Boards, an ISP programmer can also be used to reprogram a faulty bootloader or even install a new bootloader (with new features). It also allows you to squeeze a few more bytes of program storage into your sketch. Alternatively, if you're looking at branching out away from prototyping with Arduino® boards, and prefer a standalone IC like the ATmega 328P, you can use ISP instead of designing a USB-serial converter into your circuit.

*ISP = In System Programming

WHAT YOU WILL NEED:

ISP Programmer
ATMEGA 328P IC with 16MHz Crystal
Mid-Sized Breadboard
Plug-Plug Jumper Leads
ISP 10-Pin to 6-Pin Adaptor
10KΩ Resistor Pack

XC-4627
ZZ-8727
PB-8820
WC-6024
XC-4613
RR-0596



Finished project

SEE STEP-BY-STEP INSTRUCTIONS AT WWW.JAYCAR.COM.AU/ISP-PROGRAMMING

RS-232 Shield

This shield allows you to connect a legacy device (or computer) to your existing Arduino board. Providing a full RS-232 port, this shield allows you to directly communicate with a huge variety of serial peripherals. You can use the default hardware Serial on pins 0 & 1, or use the software-Serial library on pins 2-7.

- MAX232 Chipset
- DB9 Female Socket
- RS-232 Voltage compliant
- Dimensions: 65(L) x 54(W) x 16(H)mm



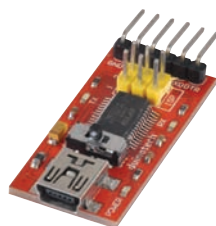
duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4227	\$34.95	\$31.45	\$27.95

FTDI USB to Serial Module

A mini-USB to 6-pin serial port module used to communicate with Arduino® boards and modules. It uses the original FT232 chip with power/sending/receiving indicator and also a selectable 3.3V and 5V power option to suit different boards.

- 3.3V & 5VDC power switch
- Send & receive indicators
- Dimensions: 43(L) x 17(W) x 12(H)mm



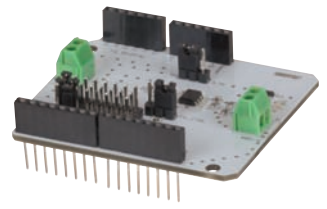
duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4464	\$19.95	\$17.95	\$15.95

RS485 Shield

RS485 is a standard communication port for field bus. Arduino only has a USB port and a TTL UART interface. In order to talk to a device that has RS485 bus, we can add a RS485 port to Arduino using this handy RS485 shield.

- Use this handy Arduino RS485 shield to add an RS485 port to your Arduino
- Comes fully assembled with shield stacking headers

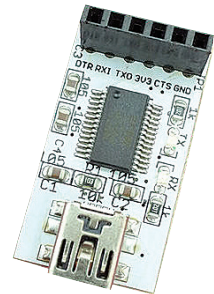


duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4554	\$34.95	\$31.45	\$27.90

FT232 USB to Serial Breakout Board

This is a basic breakout board for the FTDI FT232RL USB to serial IC. The pinout of this board matches the FTDI cable to work with 5V Arduino boards. It can also be used for general serial applications. The major feature of this board is that it brings out the DTR pin as opposed to the RTS pin of the FTDI cable. The DTR pin allows an Arduino target to auto-reset when a new Sketch is downloaded. This is a really nice feature to have and allows a sketch to be downloaded without having to hit the reset button.



duinotech

Not available in all stores but can be ordered

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4594	\$34.95	\$31.45	\$27.90

AVR ISP 10 Pin to 6 Pin Adaptor

Adaptor from 10pin ISP header to 6 pin ISP header as found on Arduino boards.

- Use with an ISP programmer to update bootloaders or reflash bricked boards
- 10 pin plug to 6 pin socket



duinotech

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4613	\$4.95	\$4.45	\$3.95

ISP Programmer for AVR

Compatible with Arduino boards with ISP, ZZ-8727 ATmega328P MCU and fully supported by the Arduino IDE, allowing you to unbrick, install or update Arduino-compatible boards and your own custom-made projects.

- Compatible with a wide range of microcontrollers, including all Duinotech main boards
- 10 pin ISP programming cable included (use XC-4613 to convert to 6 pin)



NEW 2017

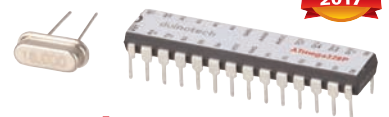
duinotech

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4627	\$14.95	\$13.45	\$11.95

ATMEGA328P MCU IC with Arduino UNO Bootloader & 16MHz Crystal

An Atmel AVR ATmega328P microcontroller for you to build your very own customised Arduino compatible projects. For your convenience it comes with the Arduino Uno bootloader pre-installed and features a label on top which details the pinouts. Includes 16MHz crystal oscillator.

- Same IO pins as Duinotech Uno Board
- 0 - 4MHz @ 1.8 - 5.5V, 0 - 10MHz @ 2.7 - 5.5V, 0 - 20MHz @ 4.5 - 5.5V
- 28-pin DIP format for easy use in breadboards or Arduino compatible boards



NEW 2017

See page 346 for pin out

duinotech

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZZ-8727	\$12.95	\$11.35	\$8.95

LINKER MODULES & ACCESSORIES

The Linker range is based around a series of Arduino compatible modules, shields and cables that make prototyping easy - so easy that we'd recommend that even primary school children would be able to use them. With the Ardublocks Arduino IDE add-on, even programming becomes as simple as drag and drop.

The Linker Base Shield attaches to the Uno, Mega or Leonardo boards, and allows any of the Linker modules to be plugged in. No need to worry about getting connections reversed and blowing up components -they can only be plugged in one way. There's over twenty different modules in the Linker range, and because the Linker Base Shield has standard Arduino headers, you can even add any of our duinotech modules if you need to go beyond what Linker can offer.



PROGRAMMING MADE EASY WITH ARDUBLOCK

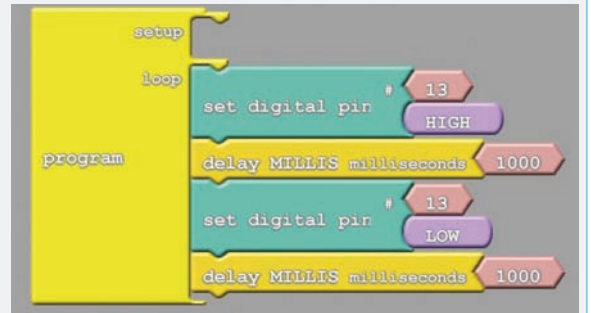
TECH TALK

If you are just starting out or just can't get your head around programming your Arduino project then ArduBlock makes it easy. ArduBlock is a graphical drag-and-drop type programming environment for Arduino. It's also ideal for kids!

By dragging and dropping colour coded blocks into the workspace, a fully functioning Arduino program can be created within minutes. But just because ArduBlock is easy doesn't mean it's not powerful. You have access to most Arduino IDE functions and a few libraries as well. And to help you make the transition to the full Arduino IDE, ArduBlock also turns your blocks into standard Arduino code as well. Brilliant!

To learn more about ArduBlock visit www.jaycar.com.au/ardublock

The diagram shows you how simple it is to program the classic Arduino 'Blink' program using ArduBlock.



LINKER ESSENTIALS

Linker Base Shield for Arduino

This is the base shield of Linker kit, it allows simple and tidy connection between all Linker sensors/ modules and Arduino/pcDuino. Linker kit is more suitable for starters than breadboard or protoboard. You simply connect the Linker input/output modules to your Arduino/pcDuino projects with clearly marked 2.54mm headers instead of I/O pins.

- Connections: 1 x SPI, 2 x IIC, 1 x UART
- Dimensions: 69(W) x 59(H) x 18(D)mm



▲	Cat.	Qty 1+	Qty 5+
	XC-4557	\$24.95	\$22.45

Linker Jumper Leads for Arduino

Connects Linker kit sensors/modules and Linker kit base shield. 2.54mm headers for easy and tidy connection.

- 4 pins, 2.54mm spaced
- Sold individually



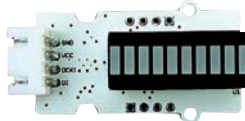
▲		Cat.	Qty 1+	Qty 5+
	200mm Each	XC-4558	\$4.95	\$4.45
	500mm Each	XC-4559	\$4.95	\$4.45
	1000mm Each	XC-4560	\$4.95	\$4.45

LINKER MODULES

Linker LED Bar for Arduino

This LED bar is a standard Linker kit module, so it can connect to Arduino or pcDuino easily via the base shield. The LED bar has 10 light gauges to use as an indicator for various measurements.

- Driver Chip: MY9221
- Dimensions: 44.1(W) x 24.2(H) x 11.5(D)mm



▲	Cat.	Qty 1+	Qty 5+
10 Segments	XC-4568	\$9.95	\$8.75

Linker 4-Digit 7-Segment Module for Arduino

This Linker 4-digit 7-segment module uses a chipset of TM1637 to drive a 12-pin 4-digit common anode 7-segment LED. It is an ideal module to use as timer or clock. The MCU only needs two GPIO lines to control it.

- Dimensions: 46.2(W) x 24.3(H) x 14.5(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
4-Digit 7-Segment	XC-4569	\$11.95	\$10.70	\$9.50

Linker High Power LED Module for Arduino

This is a high power LED module for the Linker kit. It has five very bright white LEDs to use as lamp or camera flash.

SPECIFICATIONS	XC-4570
LEDs	SMD 3528
Working Voltage	3.0-3.4V
Operating current	20mA
Dimensions	28.9(W) x 20(H) x 9.5(D)mm



▲	Cat.	Qty 1+	Qty 5+
5 LED	XC-4570	\$14.95	\$13.45

Linker Momentary Push Button Switch for Arduino

A standard 12mm square momentary button mounted for the Linker connection. The button is big and has a solid tactile click for assurance. Can be used as an input or as a reset button.

- Dimensions: 26(W) x 25(H) x 10.9(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
6V 40mA	XC-4571	\$4.95	\$4.45	\$3.90

Linker LEDs for Arduino

Linker LED Module is designed for beginners of Arduino/pcDuino to monitor controls from digital ports. It can be mounted to your project easily and used as pilot lamp for power or signal. Its brightness can be adjusted by potentiometer.

LINKER 3mm MODULES

Available in three colours green, red and yellow (purchased separately)

- LED Size: 3mm
- Dimensions: 23(W) x 24.2(H) x 9.5(D)mm



XC-4561

LINKER 10mm MODULES

Available in four colours blue, green, red and yellow (purchased separately)

- LED Size: 10mm
- Dimensions: 20.4(W) x 24.2(H) x 21(D)mm



XC-4564

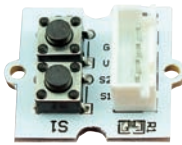
▲	Colour	Size	Cat.	Qty 1+	Qty 5+
	Green	3mm	XC-4561	\$5.95	\$5.35
	Red	3mm	XC-4562	\$5.95	\$5.35
	Yellow	3mm	XC-4563	\$5.95	\$5.35
	Blue	10mm	XC-4564	\$5.95	\$5.35
	Green	10mm	XC-4565	\$5.95	\$5.35
	Red	10mm	XC-4566	\$5.95	\$5.35
	Yellow	10mm	XC-4567	\$5.95	\$5.35

LINKER MODULES (CONTINUED)

Linker Double Button Module for Arduino

Two momentary push buttons mounted on a single board for Arduino/pcDuino via the Linker connection. Can be used as a pair of reset and switch buttons.

• Dimensions: 25(H) x 21(W) x 11(D)mm

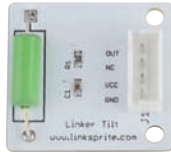


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4573	\$4.95	\$4.45	\$3.90

Linker Tilt Module for Arduino

The Linker Tilt Module is the equivalent of a button, and is used as a digital input. Inside the tilt switch is a pair of balls that make contact with the pins when the case is upright. Tilt the case over and the balls don't touch, thus not making a connection. It is wired to the SIG line, NC is not used on this kit.

• Dimensions: 28(L) x 26(W) x 11(D)mm

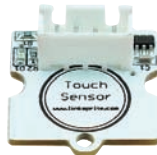


▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4575	\$4.95	\$4.45	\$3.90

Linker Touch Sensor for Arduino

A capacitive touch sensor to replace a push button. Low in power consumption, fast response and easy to operate. Voltage reads 0V when idle, changes to 5V when touched.

• Dimensions: 28(W) x 24(H) x 8(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4572	\$10.95	\$9.85	\$8.75

Linker Light Sensor for Arduino

The light sensor, also known as the light dependent resistor (LDR). Typically, the resistance of the light sensor will decrease when the ambient light intensity increases.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4574	\$6.95	\$6.25	\$5.55

Linker Temperature Module for Arduino

The Linker Temperature Module uses a thermistor to detect the ambient temperature. The resistance of a thermistor will increase when the ambient temperature decreases. It's this characteristic that we use to calculate the ambient temperature.

• Dimensions: 20(L) x 20(W) x 11(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4576	\$6.95	\$6.25	\$5.55

Linker Hall Sensor for Arduino

This hall module hosts a magnetic hall sensor that senses the presence of magnetic field. If there is a magnetic field present, it will report a high level signal.

• Dimensions: 20(L) x 24(W) x 11(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4577	\$14.95	\$13.35	\$11.70

Linker Rotary Potentiometer Module for Arduino

The Linker Rotary Potentiometer Module produces analog output between 0 and Vcc (5V DC with Arduino) on its D1 connector. The D2 connector is not used. The angular range is 300 degrees with a linear change in value. The resistance value is 10k, perfect for Arduino use.

• Dimensions: 25(L) x 25(W) x 19(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4578	\$6.95	\$6.25	\$5.55

Linker Linear/Slide Potentiometer Module for Arduino

The slide potentiometer is a linear variable resistor with a total resistance of 10k. When you move the lever from one side to the other, its output voltage will range from 0V to the VCC you apply. It has four pins, 3 of which are connected to VCC, GND and the ADC IN on the slide, while the remaining pin is connected to a red indicator LED. You can use the indicator LED to visually display the change on the potentiometer.

• Dimensions: 60(L) x 24(W) x 20(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4579	\$15.95	\$14.35	\$12.75

Linker Buzzer Module for Arduino

This buzzer module will generate around the audible 2kHz range.

• Dimensions: 25(L) x 25(W) x 11(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4580	\$5.95	\$5.35	\$4.75

Linker Magnetic Switch Module for Arduino

This is a magnetic switch module with Linker kit standard connection. It is based on encapsulated dry reed switch of single-pole, single throw (SPST) type, having normally open ruthenium contacts. The sensor is a double-ended type and may be actuated with an electromagnet, a permanent magnet or a combination of both. The magnetic switch is a wonderful tool for designers who would like to turn a circuit on and off based on proximity.

• Dimensions: 20(L) x 24(W) x 11(D)mm

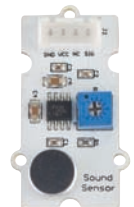


▲	Cat.	Qty 1+	Qty 3+
SPST	XC-4581	\$9.95	\$8.75

Linker Sound Sensor for Arduino

This is a simple microphone. Based on the power amplifier LM386 and the electret microphone, it can be used to detect the sound strength of the environment. The value of output can be adjusted by a potentiometer.

• Dimensions: 42(W) x 24(L) x 11(D)mm

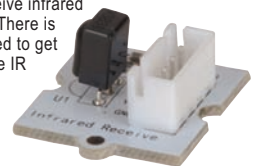


▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4582	\$14.95	\$13.35	\$11.70

Linker Infrared Receiver Module for Arduino

The Linker Infrared Receiver Module is used to receive infrared signals and also used for remote control detection. There is an IR detector on the Infrared Receiver which is used to get the infrared light emitted by the Infrared Emitter. The IR detector has a demodulator inside that looks for modulated IR at 38KHz. The Infrared Receiver can receive signals well within 10 metres.

• Dimensions: 21(W) x 25(L) x 12(D)mm

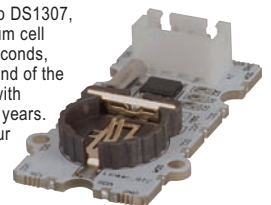


▲	Cat.	Qty 1+	Qty 3+
	XC-4583	\$9.95	\$8.75

Linker RTC for Arduino

The Linker RTC module is based on the clock chip DS1307, which supports the I2C protocol. It utilises a Lithium cell battery (CR1225). The clock/calendar provides seconds, minutes, hours, day, date, month, and year. The end of the month date is automatically adjusted for months with fewer than 31 days, including corrections for leap years. The clock operates in either the 24-hour or 12-hour format with AM/PM indicator. And it is valid up to 2100. In order to gain a robust performance, you must put a 3V CR1225 lithium cell in the battery-holder. If you use the primary power only, the module may not work normally, because the crystal may not oscillate.

• Dimensions: 42(L) x 24(W) x 11(D)mm



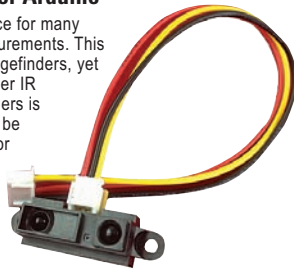
▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4584	\$19.95	\$17.70	\$15.70

LINKER MODULES (CONTINUED)

Linker Infrared Distance Sensor for Arduino

This sharp distance sensor is a popular choice for many projects that require accurate distance measurements. This IR sensor is more economical than sonar rangefinders, yet it provides much better performance than other IR alternatives. Interfacing to most microcontrollers is straightforward: the single analog output can be connected to an analog-to-digital converter for taking distance measurements, or the output can be connected to a comparator for threshold detection. The detection range of this version is approximately 100mm to 800mm.

• Dimensions: 30(L) x 13(W) x 13.5(D)mm

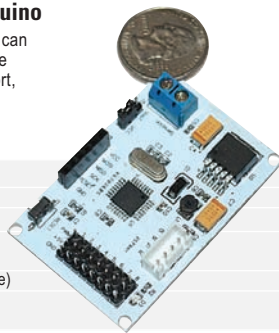


▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4585	\$29.95	\$26.95	\$23.95

Linker Serial Servo Module for Arduino

Serial Servo Driver is a servo driver board that can drive up to 8 servos with a precision of 5us. The communication interface is TTL UART serial port, and compatible with Linker kit interface.

SPECIFICATIONS	XC-4586
Number of channels	8
Driving frequency	50Hz (a period of 20ms)
Communication	UART (a form factor of Linker kit), baud rate 9600
Interface	5us (1LSB of the duty cycle)
Optional External power supply	6V-15V



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4586	\$39.95	\$35.90	\$31.90

Linker Vibration Sensor Module for Arduino

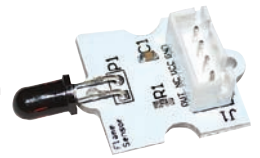
This vibration sensor module uses a spring based sensor. When there is vibration, it will output a digital signal. The SW-18010P series spring type used is a non-directional trigger switch. Switch is open circuit OFF-state when it is static, and when external force results in a corresponding vibration, or movement speed gathers enough centrifugal force, conductive pick feet will produce instant conductivity and circuit goes to On-state.



▲	Cat.	Qty 1+	Qty 3+
	XC-4587	\$9.95	\$8.75

Linker Flame Sensor Module for Arduino

Flame sensor module of Linker kit is only sensitive to the light in the frequency band of infrared and ultraviolet. This breakout board has 3 useful pins: sensor output signal, power, and ground. The sensor output signal is an analog signal. In an indoor environment, the signal output is around 0V. When there is flame or other infrared source, the voltage of output signal will increase. When the intensity of light is high, it can output as large as 3V.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4588	\$10.95	\$9.85	\$8.75

Linker Path Tracking Sensor Module for Arduino

This sensor module uses a reflective infrared sensor (tcr500). The infrared light is emitted and reflected back to the receiver, it's then inverted by 74LS14 and output to the output pin and the LED. The output signal is a digital signal. There are 3 active pins: output signal, power supply and ground. On a white surface, the output signal will be HIGH. On a black/non-reflective surface, the output signal will be low and the LED is off. The working distance from the sensor to the surface is around 15mm.



▲	Cat.	Qty 1+	Qty 3+
	XC-4590	\$9.95	\$8.75

PCDUINO

pcDuino3 is a high performance, cost effective single board computer. It can be used for a wide range of applications; for example use the built-in HDMI port and pre-loaded XBMC-Media Centre to make your own home cinema media player. Add a HDD and a wireless keyboard & mouse (such as XC-4943) and you have a great media centre ready to go. Connect to the internet via Wi-Fi or 10/100/1000 Ethernet.

The Arduino style header allows you to connect Arduino shields* described over the next 14 pages of the catalogue, so you can make anything your heart desires. Six Analog inputs and two PWM outputs make for even extra versatility.

Unlike the Raspberry Pi, there is no need to go through the tedious process of preparing a boot SD Card, the pcDuino has a 4GB onboard flash drive that comes pre-loaded with Ubuntu Linux (which you can replace with Android operating system).

While you don't need an SD Card, there is a microSD socket available for extra storage. If you need some serious storage space, the pcDuino sports a SATA connector so you can attach a full size HDD.

Happy making!

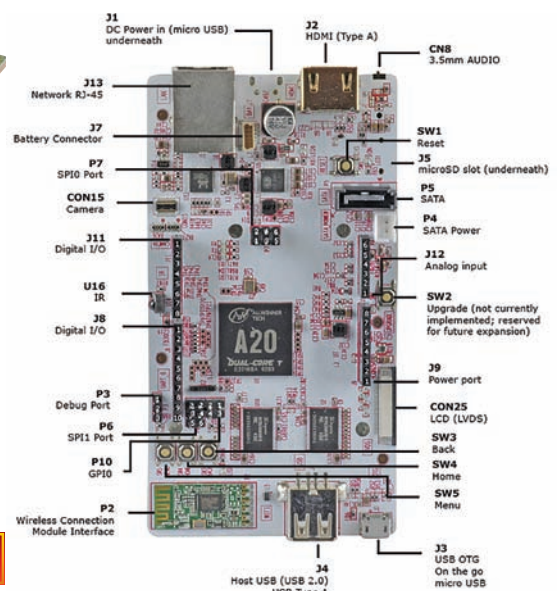
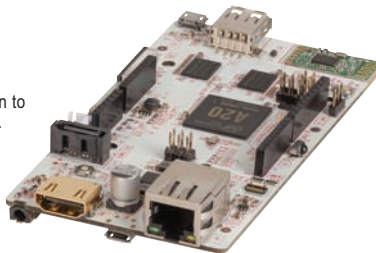


pcDuino v3.0

The latest version of the pcDuino single-board-computer. This is the full size pcDuino board and includes the LVDS connector to connect an LCD touch screen (XC-4356). Wi-Fi capability is built in to this version and digital audio is supported via I²C. Ideally suited for creating a wireless media center.



SPECIFICATIONS	XC-4350
CPU	AllWinner A20 SoC, 1GHz ARM Cortex A7 Dual Core
GPU	OpenGL ES2.0, OpenVG 1.1, Mali 400 Dual Core
DRAM	1GB
Storage	4GB Flash, microSD card (TF) slot for up to 32GB
Video	HDMI 1.4 with HDCP support
OS	Ubuntu 14.04, Android 4.2
Arduino interface	Arduino sockets, same as Arduino UNO
Network interface	14xGPIO, 2xPWM, 6xADC, 1xUART, 1xSPI, 1xI2C
Audio out	Built-in WiFi, Ethernet 10M/100Mbps/1Gbps
LCD	3.5mm analog audio interface, I2S stereo digital audio interface
IR	LVDS
SATA	IR receiver
USB	SATA Host socket
Power	1 x USB host, 1xUSB OTG
Dimensions	5V, 2000mA
	121(L) x 65(W)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
pcDuino V3.0 with Wi-Fi	XC-4350	\$129.00	\$115.95	\$102.95

pcDuino (CONTINUED)

7" LCD Touch Screen Monitor to suit XC-4350 pcDuino

This is a custom made 7" LVDS colour LCD with capacitive touch for pcDuino3 (XC-4350). It has a resolution of 1024x600, and comes with an LVDS screen with driver board, a ribbon cable and 10 pieces of male to female jumper wires.

- Resolution: 1024 x 600
- Dimensions: 167(L) x 107(W) x 10(D)mm



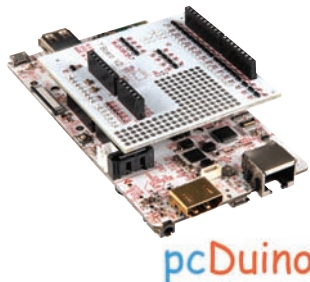
Note: pcDuino not included

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
7" LCD	XC-4356	\$149.00	\$133.95	\$118.95

Voltage Converter Module for pcDuino

While most Arduino shields run at 5V, the pcDuino runs at 3.3V. Directly connecting a 5V shield to the pcDuino will cause immediate damage. This shield safely marries 5V Arduino shields with the 3.3V pcDuino. This shield sits between the pcDuino and the 5V shield and provides bi-directional voltage translation.

- Dimensions: 70(L) x 50(W) x 4(D)mm

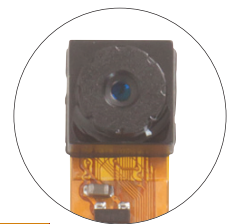


Note: pcDuino not included

▲	Cat.	Qty 1+	Qty 4+
Voltage Converter	XC-4362	\$29.95	\$26.95

pcDuino 5MP Camera

This 5M pixel camera module is capable of capturing 2592 x 1944 active array video and images and connects directly to your pcDuino V3. Connect the included ribbon cable to the CSI (Camera Serial Interface) port on your pcDuino, boot it up, and you are good to go! The real strength of this camera module comes from the OV5640 image sensor. The OV5640 is a high quality CMOS image sensor, for mobile phone camera and digital camera applications. The OV5640 incorporates a 2592 x 1944 active array, on-chip 10-bit ADC, and image signal processor. It outputs various data formats, such as RAW RGB, RGB565/555/444, CCIR656, YUV422/420, YCbCr422.



NEW LOW PRICE



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4364	\$44.95	\$40.45	\$35.95

SATA Cable for pcDuino

This SATA cable kit connects your pcDUINO3 to a hard drive or SSD. It is a simultaneous power and data line that enables you to operate your device simply and easily.

- Length: approx. 150mm



Note: Does not include hard drive or pcDuino

See page 405 for our 1TB HDD

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-4366	\$9.95	\$8.75	\$7.75

WHAT IS ARDUINO?

TECH TALK

Arduino is an open source hardware and software prototyping environment, but what does this mean? Open source means that the boards and programs have been developed by a community of people who are passionate about building their own ideas into projects, but also are willing to share their knowledge, designs, code and skills with other like-minded people. You not only have access to what's in this kit, but a wealth of shared resources, examples and project ideas to help you develop and learn.

To learn more about Arduino visit www.arduino.cc

Enclosure to suit pcDuino V3.0

House your pcDuino in this enclosure for a safe and presentable appearance



Product may vary from one shown

▲	Cat.	Qty 1+	Qty 5+
Black to Suit XC-4350	XC-4354	\$29.95	\$26.95

ABOUT SCRATCH & S4A

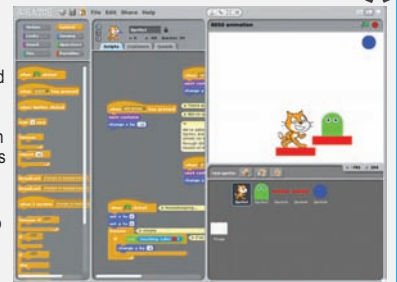
TECH TALK

Scratch is an easy to learn technology language designed by MIT Media Labs and is mainly intended to introduce programming to children aged 7 to 16. The Arduino community have modified Scratch and created S4A. S4A allows for simple programming of the Arduino open source hardware platform. It provides new blocks for managing sensors and actuators connected to Arduino.

Arduino objects offer blocks for the basic microcontroller functionalities, analogue and digital writes and reads, and also for higher level ones. In S4A, an Arduino board is represented by a special kind of sprite. The Arduino sprite will automatically find the USB port where the board is connected. It is possible to connect to multiple boards at the same time by just adding a new Arduino sprite.

Components have to be connected in a particular way. S4A allows for 6 analog inputs (analog pins), 2 digital inputs (digital pins 2 and 3), 3 analogue outputs (digital pins 5, 6 and 9), 3 digital outputs (pins 10, 11 and 13) and 4 special outputs to connect Parallax continuous rotation servomotors (digital pins 4, 7, 8 and 12). A board can be managed wirelessly by attaching an RF module to it, such as Xbee. S4A allows control of many boards as USB ports that are available.

S4A is backwards compatible with Scratch, so you can open Scratch projects in it. However, you won't be able to share your projects on the Scratch community website because doing so goes against the Scratch terms of use.



PCDUINO - TRY BEFORE YOU BUY

INTERACTIVE DISPLAY

We are so impressed by the pcDuino we have set up an interactive display in our stores to show you how fantastic they really are. If you're still not sold on the power of pcDuino, we invite you to pop into our store and see the pcDuino in action for yourself. We have attached a 7" Touch Screen (XC-4356) and programmed the pcDuino (running on Ubuntu Linux) to demonstrate the following:

XBMC:

All in one Media Centre - perfect for the car, or just for the TV at home.

ARDUINO IDE:

Program and programmer all in one - plug in a keyboard and mouse, and watch your sketches work on the same machine you've developed them on.

SCRATCH:

Want to program but don't like the look of pages of dense code? Have a look at Scratch - drag and drop blocks to assemble code, and your programs can even interact with sound and animations.

CHROMIUM BROWSER:

A fully featured browser is available with just a click.

UBUNTU 14 APPS:

All your essential utility apps like media player, text editor, file manager, and calculator. Sample scripts: See how easy it is to control the output pins by a single click of icons on the desktop.

OCTOPRINT:

3D Printer Management with web interface.

CONNECTIVITY:

Wi-Fi, USB and USB OTG, Ethernet, SATA, Serial Debug, 3.5mm Analog and I2S Digital Audio.



PROTOTYPING ACCESSORIES - BREADBOARDS & JUMPER LEADS

Mini Breadboard with 170 Tie Points

With self-adhesive tape on the back, it is ideal for DIY projects including Arduino®. It has 17 holes x 10. Total 170 holes. It can also be permanently mounted with screws (not included).

- Nubbins and slots on the sides to connect multiple breadboards together
- Dimensions: 46(L) x 35(W) x 9(H)mm
- Weight: 14g

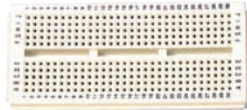


▲	Cat.	Qty 1+	Qty 5+
	PB-8817	\$4.95	\$4.45

Mini Breadboard

One terminal strip supplied which gives 30 holes x 10. Total 300 holes.

- Dimensions: 39(W) x 87(L)mm

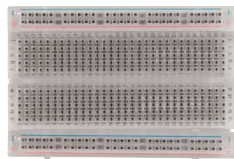


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PB-8832	\$12.95	\$11.35	\$10.35

Breadboard with 400 Tie Points

Mid-sized prototyping breadboard with 400 tie points.

- 300 tie points in centre section
- 100 tie points on power rails
- Dimensions: 83 x 55 x 10mm

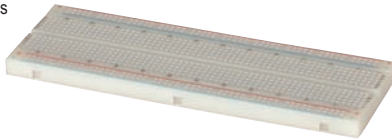


▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	PB-8820	\$7.95	\$7.15	\$6.35

Breadboard with 830 Tie Points

With labelled rows and columns and adhesive back for mounting, it is ideal for electronic prototyping and Arduino® projects.

- Tie points: 830
- Distribution holes: 200
- Terminal holes: 630
- Nubbins and slots on the sides to connect multiple breadboards together
- Dimensions: 165(L) x 54(W) x 9(H)mm, 74g

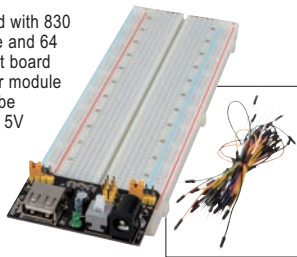


▲	Cat.	Qty 1+	Qty 5+
	PB-8815	\$14.95	\$13.45

Solderless Breadboard with Power Supply & Jumper Lead Kit

This kit comprises of a solderless breadboard with 830 connection tie-points, a power supply module and 64 pieces of mixed jumper leads. Ideal for circuit board prototyping and Arduino® projects. The power module can be plugged into the power rails and can be plugged from either a 12V plug pack or from 5V using the USB socket, and has a switchable output between 3V and 5VDC.

- 1 x Solderless Breadboard with 830 Points
- 1 x Power Supply Module
- 64 mixed jumper wires of different lengths and colours



▲	Cat.	Qty 1+	Qty 5+
	PB-8819	\$19.95	\$17.95

Stackable Header

Build a stackable shield, or make your current shield stackable with the Duinotech Stackable Headers. Alternatively, shorten the pins to make female headers just like the Duinotech main boards.

Includes:

- 1 x 10-pin
- 2 x 8-pin
- 1 x 6-pin
- 1 x 2x3-pin (for ICSP)



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HM-3208	\$4.50	\$4.05	\$3.60

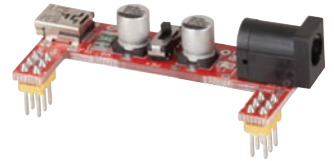
INTO THE DEEPEST JUNGLE

If you are perusing this section you are a real hardcore electronics hobbyist. You are in real soldering-iron territory. Good on you!

Breadboard Power Module

Receiving power from a USB socket or DC socket, this module adds a compact power supply to your breadboard.

- Plugs straight into most bread boards
- Can be set to 3.3V or 5V
- Concave design saves space
- Dimensions: 57 x 24 x 21mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	XC-4606	\$9.95	\$8.75	\$7.75

Breadboard

- 1660 tie points
- 400 distribution holes / 1280 terminal holes
- Mounted on a metal plate
- 3 banana terminals
- Rubber feet
- Dimensions: 157(W) x 237(H)mm
- Board size: 130(W) x 175(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PB-8816	\$43.95	\$38.45	\$34.95

Breadboard Jumper Kit

This kit consists of 70 pcs of single core sturdy wire which has been stripped on each end and bent at right angles.

- Specifically made for breadboards
- There are 5 pcs each of 14 different lengths



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PB-8850	\$13.50	\$11.35	\$10.35

150mm Jumper Leads - 40 Pieces

A pack of 40 jumper leads of various colours for prototyping. Ideal for Arduino® and DIY projects. Each flexible lead is 150mm long with pins to suit breadboards or PCB headers.



NERD PERKS
2x POINTS

▲	Cat.	Qty 1+	Qty 5+
Plug to Plug	WC-6024	\$5.95	\$5.35
Socket to Socket	WC-6026	\$5.95	\$5.35
Plug to Socket	WC-6028	\$5.95	\$5.35

Jumper Lead Assortment Kit - 90 Pieces

Jumper lead set for use in Arduino® projects, school experiments and other hobbyist activities. A kit of 90 pieces measuring 220mm in length.



NERD PERKS
2x POINTS

NEW LOW PRICE

▲	Cat.	Qty 1+	Qty 5+
Plug to Plug	WC-6029	\$12.95	\$11.45

Jumper Lead Mixed Pack - 100 Pieces

A mixed pack of jumper leads for your Arduino, breadboarding and prototyping projects.

- 30 Plug-Plug
- 40 Plug-Socket
- 30 Socket-Socket
- All 150mm long



NEW 2017

▲	Cat.	Qty 1+	Qty 5+
	WC-6027	\$14.95	\$13.45

Economy Breadboard Jumper Kit

Solid core hookup cable, which is the ideal size for breadboards. Cut it to whatever lengths you require and strip the ends

2 metres each of 5 colours
Colours may vary from time to time..



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Per Pack	WH-3032	\$4.50	\$3.95	\$3.60

PCB MAKING

Blank Fibreglass PCB

Pure copper bonded to quality fibreglass base.

- HP-9514, 9512, 9510 are single sided
- HP-9515 is double sided



▲ mm	Cat.	Qty 1+	Qty 4+	Qty 10+
150x75	HP-9514	\$5.95	\$5.25	\$4.75
150x150	HP-9512	\$8.95	\$7.95	\$6.95
150x150	HP-9515	\$9.95	\$8.75	\$7.75
300x300	HP-9510	\$19.95	\$17.95	\$15.95

Etch Resistant & Waterproof Pen

The ink from the pen is etch-resistant so you have a quick and simple way of making a PCB! Being waterproof it is also great for labelling things on or about the boat, caravan or motorhome. The ink will wash off afterwards with metho, turps, etc.

- Excellent smudge-proof and waterproof qualities
- Dries in seconds
- Low-odour ink
- Xylene and toluene-free ink
- Line width fine approx. 0.6mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Blue	TM-3002	\$4.95	\$4.45	\$4.00

Ammonium Persulphate - 400gm

The alternative to ferric chloride. Mix contents (400 grams) with 1.5 litres of hot water to etch copper boards. The contents will treat about 500sq/cm of PCBs.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	NC-4254	\$12.95	\$11.35	\$10.35

PCB Wash Defluxing Solution

Removes flux and residue from circuit boards to provide an extremely clean and contaminant free surface. The ready to use solution can be safely used in ultrasonic tanks for various applications including: jewellery, metal parts degreasing, removing flux and cleaning sensitive electronic parts. Appropriate for both static and ultrasonic cleaner use.

- Non-flammable
- Water-based (Biodegradable)



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
1 Litre Bottle	NA-1070	\$14.95	\$13.45	\$11.95

PROTOTYPING ACCESSORIES

Polymorph Pellets

Polymorph will change the way you make parts. It's a commercial grade thermoplastic that softens enough to be formed into any shape at around 62 - 65°C. You simply heat the pellets in hot water. It hardens at room temperature to form a tough plastic material similar in consistency and colour to Nylon. It can be drilled, sanded, ground, machined, painted or heated and reformed again and again. Endless uses in model making, craft, single part manufacture, prototyping, engineering, science, lab and more.

- Supplied in a 100g bag of 3mm pellets.

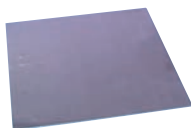


This car was moulded in minutes using a car baking tin!

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	NP-4260	\$11.50	\$10.35	\$8.95

Aluminium Sheet

18 gauge.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
295 x 295mm	HM-9500	\$13.95	\$12.35	\$10.95

PCB Etching Kit

An ideal kit for anyone needing to etch a circuit board - complete with an assortment of copper boards, etchant, working bath and tweezers. It also includes a positive acting photosensitive PCB and developer.

Supplied with:

- 1 x Plastic bath to accept PCBs up to 180 x 110mm
- 1 x Photosensitive single sided PCB
- 1 x Sachet of positive developer for Riston
- 1 x 100g sachet of sodium persulphate etchant
- 1 x Plastic tweezers Assortment of PCB's, instructions



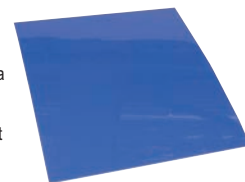
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HG-9990	\$27.95	\$24.95	\$22.35

Press 'n' Peel Film

This is by far the easiest way to make Printed Circuit Boards from CAD software or magazine PCB layout artwork. You simply make the PCB image by putting a Press 'n' Peel sheet of transfer film in the paper tray of a photocopier or laser printer (The sheet size is almost the same as the A4 paper tray). You then print or copy the PCB track image onto the film. Using a domestic clothes iron you press the image onto a pre-cleaned piece of copper clad PCB. The image transfers to the copper and the image will not etch away. Ammonium persulphate or ferric chloride are both OK. You get 5 sheets of 215 x 280mm transfer film in each pack. Full instructions are supplied.

4 Easy Steps:

1. Print or Copy
2. Iron on
3. Peel off
4. Etch



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HG-9980	\$35.00	\$31.45	\$27.95

Etch Your Own PC Boards Booklet

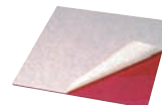
Need just one or two printed circuit boards, for a magazine project or a prototype for your latest design? It's not too hard to etch your own single sided or even double sided boards, especially if you have access to a photocopier or a PC and laser printer. In this tech update we tell you all you need to know.



▲	Cat.	Qty 1+
	BI-8212	\$2.00

Perspex - Red

- 3mm thick
- Supplied with peel-off film

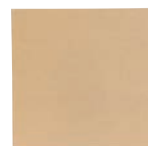


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Red 195 x 195mm	HM-9505	\$13.95	\$12.35	\$10.95

Clear Acrylic Sheet

General purpose clear acrylic (Perspex) sheet for hobby use. Suitable for displays etc.

- Supplied with peel-off protection film



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
195 x 195 x 3mm	HM-9509	\$13.95	\$12.35	\$10.95

ATTENTION PARENTS & EDUCATORS

TECH TALK



CAN WE HELP?

If you're a Parent or an Educator and want some practical resources or help, then your local Jaycar Store or Stockist can assist with a wide range of learning projects. Jaycar has science, green power, robotics and construction kits for the kids to build themselves or for more electronics based learning from basic non-soldering kits through to Arduino programmable modules, shields, boards and accessories, and of course our great range of 3D printers & accessories.

See page 216 for Metal Bending Pliers

PCB EXPERIMENTING & PROTOTYPING

PC Boards - Vero Type Strip

Alphanumeric grid, pre-drilled 0.9mm, 2.5mm spacing.

- Dimensions:
95mm wide x 3 handy lengths

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
75mm	HP-9540	\$4.50	\$3.95	\$3.60
152mm	HP-9542	\$7.95	\$6.95	\$6.25
305mm	HP-9544	\$11.50	\$10.35	\$8.95

Universal Pre-Punched Experimenter's Boards

The low cost way to build prototype or one-off projects. We now stock 3 sizes of phenolic board that has a matrix of punched holes on 0.1" (2.5mm) pitch with 'donut' of tin plated copper around each hole. Finally the non-solder side of the board has an alphanumeric grid printed on it to assist in the component identification board layout.

SMALL - HP-9550

95 x 72mm, 25 x 30 holes (750) 3.6mm edge pitch.

MEDIUM - HP-9552

140 x 95mm, 29 x 50 holes (1450) 2.5mm edge pitch.

LARGE - HP-9554

210 x 78mm, 24 x 67 holes (1608) 3.6mm edge pitch.

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Small	HP-9550	\$4.50	\$3.95	\$3.60
Medium	HP-9552	\$6.95	\$6.25	\$5.55
Large	HP-9554	\$8.95	\$7.95	\$6.95

Unclad Punched Laminate

A single 150(L) x 70(W)mm strip of phenolic punched at 0.1" (2.5mm) grid with NO laminate (copper) on either side.

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-9562	\$5.50	\$4.90	\$4.30

Ultra Mini Experimenter's Boards

20 holes deep by 16 holes wide with "links" and "strips" (bus rails) every 2 holes. Board measures a compact 65 x 45mm and is extremely versatile. Supplied as a pair, end-to-end.

Can be snapped apart to make two boards (dimensions above) or one 130 x 45mm 0.3" wide x 0.1" pitch.

- Ideal for DIL ICs in small numbers.

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-9556	\$4.95	\$4.45	\$3.95

IC Experimenter's Board

You can fit dozens of DIL ICs on this board. 30 holes deep x 50 holes wide, with a "link"/"strip" (bus rails) pattern enabling alternate V+ and earth rails. Very versatile.

- Alphanumeric markings on grid pattern
- Dimensions: 140 x 95mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HP-9558	\$6.95	\$6.25	\$5.55

Spot Face Cutter for Strip Boards

The spot face cutter is designed to neatly remove copper strip on strip type prototyping boards. Insert the tool in the pre-drilled hole and rotate it until the track is removed entirely. Easy to use and much more efficient than other methods.

- Dimensions:
Handle: 60(L) x 17(W) x 17(D)mm
Total Length: 110mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2461	\$8.95	\$8.25	\$6.95

Breadboard Layout Prototyping Boards

A prototyping board that lets you transfer your breadboard design without having to rework it. Includes five holes on each side per row and power rails running the length of the board.

Two sizes to choose from.

SMALL:

- 25 rows
- 400 holes
- Similar layout to PB-8820
- 73mm x 47mm x 1.4mm

LARGE:

- 59 rows
- 862 holes
- Similar layout to PB-8815 Breadboard
- 155mm x 58mm x 1.4mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
400 hole	HP-9570	\$4.95	\$4.45	\$3.95
862 hole	HP-9572	\$9.95	\$8.95	\$7.95

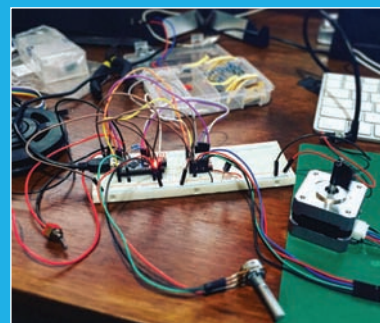
Copper Tape with Adhesive Backing

- Solderable
- Repair printed circuit boards
- Create antennas and shielding
- 5mm x 25m

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
25m	NM-2870	\$6.95	\$6.25	\$5.55

SHOW US YOUR BUILD COMPETITION

Jason, who shops at our Jaycar Dunedin store built:



"I'm building a remote controlled Camera Cable-Cam using an Arduino as the brains to control a stepper motor. The Arduino is also programmed to remotely operate the Camera via LANC."

RELATED PRODUCTS

FROM
\$13.95
TS-1465



SOLDERING IRONS

P175

FROM
\$4.50
HP-1250



PC PINS

P148

FROM
\$19.95
TH-1760



TWEEZERS

P216

FROM
\$12.95
TH-1897



TOOLS

P215

CONDUCTIVE COMPOUNDS

Wire Glue

A soldering iron in a jar. Wire Glue is a electrically conductive adhesive that enables you to make solder-free connections when you don't have a soldering iron handy, or can't apply heat for some reason. Hundreds of hobby, trade and electronics uses. Lead-free, cures overnight.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
9ml	NM-2831	\$9.95	\$8.75	\$7.75

Conductive Carbon Grease

Lubricates and improves electrical and thermal connections between sliding surfaces, while providing protection from moisture & corrosion. Excellent for use on switches and EMI shielding applications. Industrial, trade and hobby use. 50 gram tube.

- Prevents normally closed switches from corroding in place.
- Reduces make-break arcing and pitting of switch contact surfaces
- Improves the connection between irregular or pitted contact surfaces
- Reduces EMI noise by maintaining a continuous path between conductive surfaces
- Thermally stable up to 200°C
- Density: 2.7 g/ml
- Electrical resistivity: 117 ohms/cm

See page 250 for
Heatsink Compound



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
50g	NA-1034	\$9.95	\$8.75	\$7.75

CLEANING PRODUCTS

Isopropyl Alcohol Cleaning Pads

Removes contaminants from metal, plastic & painted surfaces.

- Also ideal for cleaning computers
- Packet of 10



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Pkt 10	NA-1060	\$4.95	\$4.45	\$3.90

Inox Premium Grade Machinery Grease

General-purpose synthetic grease in a handy 30gm tube size. Ideal for bearings, ball joints, chains, sprockets, O-rings, bushes & other rubber and plastic etc.

- Food grade
- High temperature, non-melt
- Highly resistant to water, salt, chemicals and drying
- Fully synthetic



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
30g	NA-1032	\$9.95	\$8.75	\$7.75

ANTI-CORROSION

Tef-Gel Anti-Corrosion, Anti-Siezing, Anti-Galling Syringe

This product is far superior to a similar product we sold last year. Its main use is to prevent dissimilar metals when fastened together from corroding due to galvanic action. For example, you fasten down a stainless steel sail track slide to the metal deck of a yacht; you use this product to prevent dissimilar metal electrolytic corrosion. That's all the other product was good for. This product also stops rotating objects from seizing and prevents galling in stainless steel screw fasteners. It also protects electrical terminals/connectors.

- Will not cold flow or dry out
- Is resistant to salt water and detergents
- Has an indefinite shelf life
- Contains PTFE (Teflon®) and NO (0%) volatile solvents, no silicone, or petroleum solvents. Nothing to evaporate
- It is dielectric (Non-electrical conducting)
- No known hazardous ingredients
- High flashpoint
- Non toxic

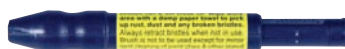


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
10ml	NA-1040	\$24.95	\$22.45	\$19.95

Corrosion Buster Pen

This pen-type product enables you to remove rust, spot corrosion and clean burnt contacts etc, without abrasion utilising the 20,000 tiny glass fibres at the tip of the pen. It has an amply sized body with finger indent to provide a comfortable & secure grip while the adjustable length allows for more aggressive cleaning when required.

- 120mm long x 14mm dia.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	NA-1410	\$24.95	\$22.45	\$19.95

Precision Conductive Ink

This is a highly conductive polymer for use in a variety of applications and is an indispensable tool for fixing damaged circuit board tracks. Apply instant traces on most surfaces (epoxy, glass, plastic, metal). Draw traces on circuit boards, repair defective traces, make jumpers and shield electronics, design prototype circuits and repair rear-window heater traces.

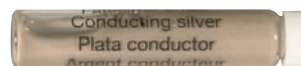


- 1mm track trace width
 - 0.02 Ohm per mm resistivity
- After heat curing only. Use low temperature soldering (less than 180°C/350°F) for not more than 5 seconds. Use low temperature soldering iron.

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	NS-3033	\$39.95	\$35.95	\$31.95

Silver Conductive Varnish

This silver conductive varnish adheres well to glass, PCB material, ceramics etc. Repairs printed circuits, window antennas, window alarm loops etc. Very good conducting properties.



- Approximately 0.02 - 0.1 Ohms/cm².

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	NS-3030	\$13.95	\$12.55	\$11.15

Deoxit ProGold Contact Cleaner & Rejuvenator

Simple cleaners wash away dirt, grime, and dust from your expensive equipment but are often ineffective at cleaning tough oxidation and metal sulphide contamination. This product will not only clean, but it will help restore your equipment to its original condition, improving its performance.

- Kit contains:
DeoxIT power booster 7.4ml
DeoxIT ProGold conditioning treatment 7.4ml
2 x brush applicators
4 x swabs
Lint free cloth



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Aerosol	NS-1434	\$29.95	\$26.95	\$23.95
Kit	NS-1436	\$29.95	\$26.95	\$23.95



SHOW US YOUR BUILD COMPETITION

Alwyn, who shops at our Jaycar Geelong store built:

- “ An LED sign for my local RSL club to advertise events and happenings. I used 5 red DMD panels from Jaycar and built a housing for them. For power I have an old computer power supply for regulated 5V and lots of Amps. I used an Arduino Nano for the control and I can show many different displays. ”

BOOKS

C Programming for Microcontrollers

Never used C before? Well if you've used Arduino, you've used C. The language the Arduino uses is just a slightly modified version of C. Becoming fluent in C programming is key to developing robust and reliable Arduino projects. What's more, pure C can be used to program almost all other microcontrollers too, not to mention your computer. This book starts right from the basics, writing simple programs to run on your pc. And eventually moves on to writing code for microcontrollers. While this book focuses on Atmel's ARM microcontrollers, the skills are equally valid when programming any architecture. Ideal for electronic hobbyists, students and engineers wanting to learn to program C.

- Uses only free or open source software
- Learn how to download, set up and use free C programming tools
- No programming experience is necessary
- Learn by doing - type and run the example programs and exercises
- Sample programs and exercises can be downloaded from the Internet
- A fun way to learn the C programming language
- Soft cover, 320 pages. 234 x 170 x 17mm



This is one of the most lucid, best written technical books we have ever seen!



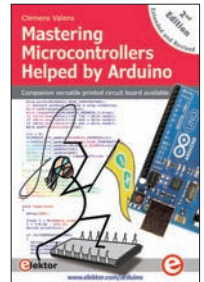
▲	Cat.	Qty 1+
	BT-1384	\$69.95

Mastering Microcontrollers Helped By Arduino

The aim of this book is not only to let you enter the World of Arduino, but also to help you emerge victorious and continue your microcontroller programming learning experience by yourself. In this book theory is put into practice on an Arduino board using the Arduino programming environment. Having completed this fun and playful course, you will be able to program any microcontroller, tackling and mastering I/O, memory, interrupts, communication (serial, I²C, SPI, 1-wire, SMBus), A/D converter, and more. All programs presented can be downloaded for free from www.elektor.com/mastering-microcontrollers. For this second edition, the author has designed a versatile printed circuit board that can be stacked on an Arduino board. The assembly can be used not only to try out many of the projects presented in this book but also allows for new exercises that in turn provide the opportunity to discover new techniques.

This book is for you if you are:

- A microcontroller novice
- An Arduino user (enthusiast, artist, etc.) wishing to deepen your knowledge
- An electronics graduate or undergraduate student
- A teacher looking for inspiration
- Soft cover, 380 pages. 209(L) x 139(W)mm



▲	Cat.	Qty 1+
	BM-7144	\$79.95

SHOW US YOUR BUILD COMPETITION

Barry, who shops at our Jaycar Tuggeranong store built:

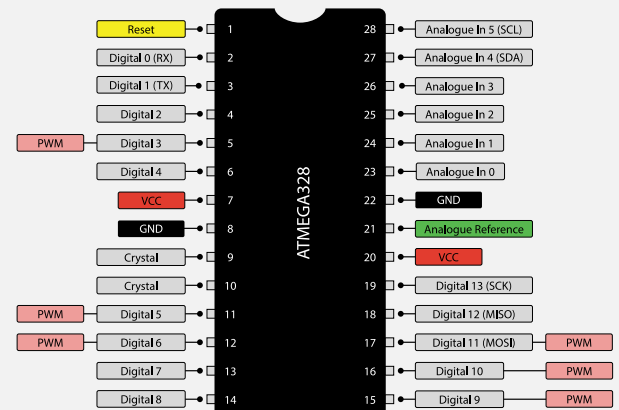


- All steel wearable Iron Man suit 37kg.
- Aim: Bring fun to kids hospital wards.
- Used Jaycar soldering station, some tooling, switches, geared motor and lighting among others.
- Three years plus construction and near completion.
- Working faceplate, vid glasses, camera, repulsors, arc reactor, audio in and out.

USEFUL PINOUTS

TECH TALK

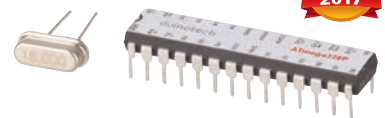
Below is the pinout diagram of the ATmega328 microcontroller IC, found on the popular Arduino Uno board. You'll find this diagram handy if you're prototyping on some breadboard instead of using one of our pre-built modules. See our ATmega328P micro and crystal kit (ZZ-8727) shown below.



ATMEGA328P MCU IC with Arduino UNO Bootloader & 16MHz Crystal

An Atmel AVR ATmega328P microcontroller for you to build your very own customised Arduino compatible projects. For your convenience it comes with the Arduino Uno bootloader pre-installed and features a label on top which details the pinouts. Includes 16MHz crystal oscillator.

- Same IO pins as Duinotech Uno Board
- 0 - 4MHz @ 1.8 - 5.5V, 0 - 10MHz @ 2.7 - 5.5V, 0 - 20MHz @ 4.5 - 5.5V
- 28-pin DIP format for easy use in breadboards or Arduino compatible boards



NEW 2017

duinotech

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	ZZ-8727	\$12.95	\$11.35	\$8.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!



DIYODE MAGAZINE

Dedicated to electronics and maker enthusiasts in Australia & New Zealand, DIYODE Magazine showcases awesome builds and provides project ideas you can make yourself.

Whether you code Arduino in your sleep, don't know your resistors from your capacitors, or have been soldering since before colour TV, you'll find something new and interesting inside.

DIYODE is available in print from Jaycar (while stocks last) or via direct subscription. To be among the first to grab a copy head to diyodemag.com

Available 1st July 2017

Note: cover image is representative only



BOOKS (CONTINUED)

Programming Arduino: Getting Started with Sketches

This entry level book explains what an Arduino microcontroller actually is (i.e. a very small stand alone computer), introduces you to the Arduino programming language (called, "C") and then describes the basic configurations of Arduino modules. After this, the book really begins. It then goes into the detail of getting Arduino's to deal with the real world, finishing with a discussion on C++ and more sophisticated applications.

- Soft cover, 162 pages, 138 x 215mm



▲	Cat.	Qty 1+
	BM-7133	\$24.95

Arduino Workshop Book - 65 Projects

In Arduino Workshop you will learn to make projects that add-on to your Arduino microcontroller platform. The book is very hands-on, describing 65 projects you can make.

Projects include:

- A digital thermometer
 - A GPS logger
 - A handy voltage tester
 - A keypad combination lock
 - A binary quiz game and much, much more
- Lavishly illustrated with very clear text and lots of professional tips for the novice constructor.



▲	Cat.	Qty 1+
	BM-7137	\$44.95

Programming Android Apps

When it comes to personalising your Smartphone don't feel limited to off the shelf applications. Creating your own apps and programming Android® devices far is easier than you might think. This book is an invaluable introduction to programming apps for Android® devices. The book explains the operation of the Android® OS in a clear step-by-step method. The book offers a wide range of applications based on hands-on examples, covering everything from simple math programs, reading sensors and GPS data, right up to programming for advanced Internet applications. Besides writing applications in the Java programming language, this book also explains how apps can be programmed using Javascript and PHP.

- Soft cover, 244 pages, 234 x 169 x 14mm



▲	Cat.	Qty 1+
	BT-1382	\$64.95

Arduino + Android Projects for the Evil Genius

Once again, not particularly evil, but another project oriented book written around Android-type mobile phones and the Arduino microcontroller. You can, for example turn your Android phone into a Geiger counter, a TV remote controller, etc. Many projects use both the Arduino and the Android culminating in the creation of a home Automation system.

- Soft cover, 197 pages, 215 x 275mm



▲	Cat.	Qty 1+
	BM-7135	\$44.95

SHOW US YOUR BUILD COMPETITION

Darby, who shops at our Jaycar Shepparton store built:

Hi I am Darby I am 14 years old and I built this CNC machine. To cut down on costs I 3D printed most of the parts and brought the rest. The power supply, tools, wires and main control board (Arduino Mega) are all from Jaycar. It is almost completed and soon I'll have a working CNC machine!!

**Arduino Robot Builder's Bonanza**

This book guides you through the construction of 7 robots that roll, walk, talk, slither and even sling insults at you. All projects feature the Arduino microcontroller platform. Step-by-step assembly diagrams and instructions provided.

- Soft cover
- 400 pages, 230 x 185mm



▲	Cat.	Qty 1+
	BM-7136	\$49.95

Practical Arduino

A much larger and detailed book. It takes you beyond the basics quite quickly and shows you how to make up a typical application/design. Examples of typical projects, 14 in all are worked through, ranging from simple to quite complex. This is a necessity as it goes to the heart of Arduino.

- Soft cover, 422 pages.
- 235 x 190mm

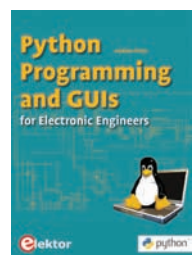


▲	Cat.	Qty 1+
	BM-7132	\$54.95

Python Programming and GUIs

This book is aimed at engineers, scientists and hobbyists who want to interface PCs with hardware projects using graphic user interfaces. The book covers both desktop and web based applications. It guides you through starting with Linux® by way of a free downloadable, live bootable distribution that can be ported around different computers without requiring hard drive installation. Practical demonstration circuits and downloadable, full software examples are provided that can be the basis for further projects. It also shows you how you can customize your own live Linux® bootable CD to include your own projects.

- Soft cover, 224 pages. 235 x 170 x 14mm



▲	Cat.	Qty 1+
	BT-1380	\$59.95

Arduino Circuit & Projects Guide

This book is aimed at those who have already had some basic experience in electronics. Typical high school level circuits, Ohm's law, etc., are sufficient. The function and behaviour of the major electronic components are well covered in this book. During the basic chapters, more elaborate projects are discussed, so that even students and teachers who have some pre-existing technical knowledge will encounter new challenges. The skill and experience level required for these projects ranges from absolute beginner, to hobbyist-expert. Beginners will benefit from progressing through the book as they build their skills, while experienced readers will find it a useful handbook.

- Programming essentials
- Simple entry level projects
- Interface and hardware extensions
- Complex applications for advanced users
- Soft cover, 260 pages. 235 x 170 x 15mm

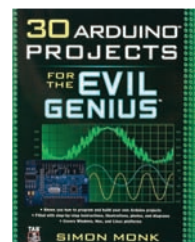


▲	Cat.	Qty 1+
	BM-7142	\$69.95

30 Arduino Projects for the Evil Genius

This is a practical project oriented book describing lots of projects based around the Arduino microcontroller. Be warned, there is nothing intrinsically evil about this book. The title is a catchy marketing department trick. It does have, however, 30 practical projects which specify components which are mostly available from Jaycar. Hours & hours of evil fun.

- Soft cover, 191 pages.
- 220 x 275mm



▲	Cat.	Qty 1+
	BM-7134	\$44.95

PRE-BUILT MINI 3D PRINTER

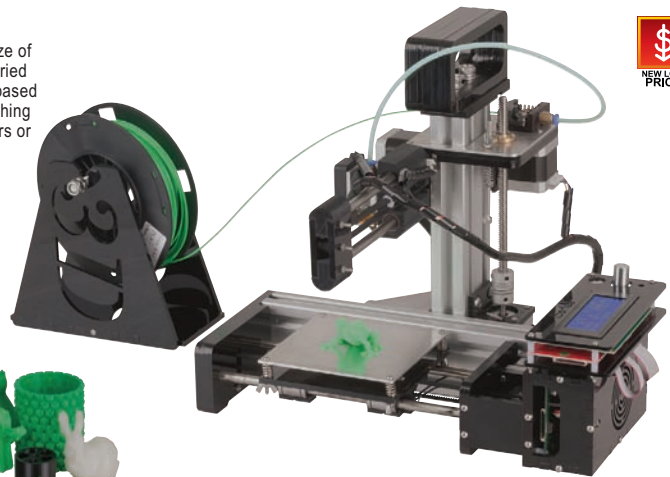
Duinotech Mini 3D Printer

If you're looking to get into the 3D printing game, but feel overwhelmed by the size of the 3D Printers out there, then the TL-4076 Mini 3D printer is for you. Using the tried and tested Marlin firmware, the Mini 3D printer supports SD card and computer-based printing. You could be printing within minutes of opening the box, because everything you need is in the box (computer needed for preparing files). Perfect for beginners or children (12+)

- 90mm x 90mm x 90mm print area
- Supports 1.75mm filament
- Non-heated bed suitable for printing with PLA
- Comprehensive tool kit and spares
- Sample filament
- Dimensions: 300(H) x 360(W) x 280(D)mm

See our website for handy build and set-up tips

Note: Filament available separately



duinotech



▲	Cat.	Qty 1+
Pre-Built	TL-4076	\$349.00

3D PRINTER KIT

Arduino 3D Printer Kit

This 3D Printer sure looks strange compared to the cubic models we're used to, but don't let that fool you, it is every bit as capable. Unlike other Kit 3D printers, this one doesn't require an advanced degree to assemble. Its elegant open-frame delta design makes assembly straightforward and painless. Use either ABS or PLA filament to make virtually any solid object you wish. The kit includes everything you need to build the printer. Including power supply, motors, controller, extruder and heated bed. The controller also sports an SD card slot, print your objects straight from the card without tying up your computer. The core of the printer is the Arduino-MEGA board (included). Many software packages are available, but we've found Repetier to be the best choice. Join the 3D Printing Revolution today!

- Geometry: DELTA
- Filament Type: PLA/ABS
- Filament Size: 1.75mm
- Heated Print Bed
- Maximum Print Size 140(W) x 250(H)mm diameter
- Dimensions: 800(H) x 300(W) x 265(D)mm

See our website for handy build and set-up tips

Note: Filament available separately



Looking for spare parts?
We have an extensive range of spare parts online and in-store for current and superceded 3D printers

duinotech



Limited Stock

▲	Cat.	Qty 1+
Kit Form - Assembly Required	TL-4100	\$499.00

Spare Nozzle to suit TL-4076 and TL-4090 3D Printers

- Brass
- 0.35mm orifice



Heat Resistant Polyimide Tape - 50mm

Originally developed for space missions, this is a heat resistant polyimide film tape with a very similar composition to Kapton® but without the associated brand name cost. Its superior adhesion to ABS makes it the ideal film to coat a 3D printer bed.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	TL-4077	\$9.95	\$8.95	\$7.95

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
30m	NM-2817	\$19.95	\$17.95	\$15.95

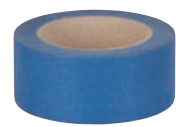
Spare PTFE Barrel Liner for TL-4076 3D Printer

- 2mm ID
- 3mm OD



Blue 3D Printer Bed Tape - 50m Roll

Classic blue "painter's" tape as universally used in the 3D printing world. It will help the project stick to the print bed as well as making removal easier if the project gets stuck. It is 48mm wide, so you use less strips and coat the print surface faster.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TL-4079	\$4.95	\$4.45	\$3.95

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
50m	NM-2818	\$9.95	\$8.95	\$7.95

3D PRINTER ACCESSORIES

Duinotech 3D Printing Tool Kit

This kit has some very handy tools to help you in your 3D printing adventures, and keep your printer in top working order. Included are some common hand tools such as tweezers, side cutters and pliers, but a few more specific tools are included too. A scraper to help remove printed objects from the printing bed, an assortment of metric hex wrenches (allen keys) and 4 x nozzle cleaners. All in a handy carry case.

- Screwdrivers/allen keys for adjustment & maintenance of moving parts
- Tweezers for removing surplus filament
- Side-cutters for cutting filament to a point to make it easier to feed in
- L-spanner to remove nozzle
- Small drill bits for cleaning out clogged and dirty nozzles
- Scraper to help remove objects from the printing bed
- Dimensions: 280(L) x 200(W) x 60(H)mm, 638g

Tools included:

1 x 2 in 1 Reversible Phillips / Flat Screwdriver	1 x ESD Safe Tweezers
1 x 5" Side Cutters	1 x 5" Long Nose Pliers
1 x 7mm L-Shape Spanner	1 x Scraper



NEW
2017

1
YEAR
WARRANTY

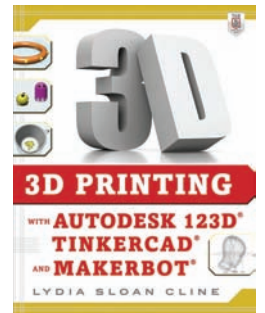
▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2119	\$49.95	\$44.95	\$39.95

DIY 3D Printing Book

This book compiled on 3D printing with Autodesk 123D, Tinkercad, and MakerBot reveals how to turn your innovative ideas into physical products that you can use or sell! This book will guide you to how to operate powerful, free software from Autodesk and bring your creations to life with the MakerBot - a leading consumer printer - or an online service bureau. The included practical lessons take you through the Design, Catch, Meshmixer, Tinkercad, Make, and CNC Utility apps, and the MakerBot Desktop. Fun projects, easy-to-follow instructions, & clear screenshots progress from installing the software to printing the design.

Videos & digital files accompany this hands-on guide.

- Make your own creations with Design and Tinkercad
- Generate construction documents with the Layout feature
- Edit and mash up .stl files with Meshmixer
- Print the model on your own machine or with a service bureau
- Download editable, premade content
- Create and edit a reality capture model with Catch
- Navigate the MakerBot Desktop

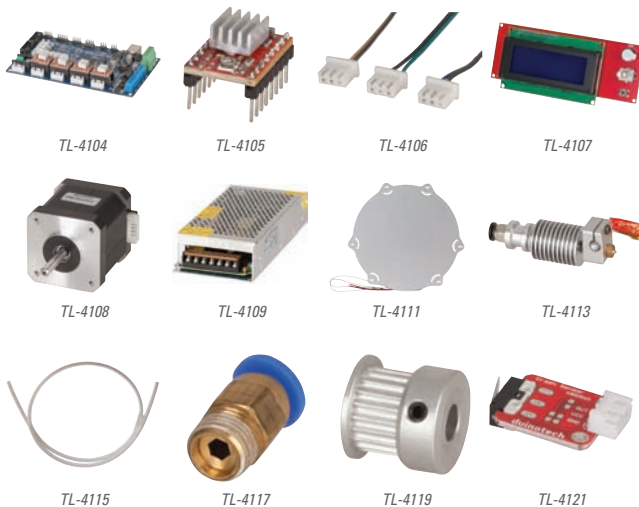


▲	Cat.	Qty 1+
Softcover, 302 pages. 274 x 216mm	BM-7122	\$44.95

TL-4100 3D Printer Spare Parts

Range of spare parts to keep your TL-4100 Printer in full working order. Happy printing!

Note: Not available at all stores but can be ordered



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Synchronous Belt Pack	TL-4103	\$17.95	\$15.95	\$13.95
Main Control Board V1.2	TL-4104	\$129.00	\$114.90	\$99.90
Stepper Motor Drive Board	TL-4105	\$9.95	\$8.95	\$7.95
Stepper Motor Short Cable	TL-4106	\$4.95	\$4.45	\$3.95
Display & SD Card Module	TL-4107	\$29.95	\$26.95	\$23.95
Stepper Motor	TL-4108	\$49.95	\$44.95	\$39.95
12V 16A Power Supply	TL-4109	\$89.95	\$80.95	\$71.95
Heated Print Bed	TL-4111	\$59.95	\$53.95	\$47.95
Heated Nozzle Assembly	TL-4113	\$39.95	\$35.95	\$31.95
Teflon Bowden Feed	TL-4115	\$4.95	\$4.45	\$3.95
M6 Teflon Tube Connector	TL-4117	\$4.95	\$4.45	\$3.95
Synchronous Wheel for Belt Drive	TL-4119	\$14.95	\$13.45	\$11.95
Collision Limit Switch Module	TL-4121	\$19.95	\$17.95	\$15.95

MONTHLY SPECIALS

Look out for our monthly promotions in store now!

SHOW US YOUR BUILD COMPETITION

Daniel, who shops at our Jaycar Townsville store built:



These are two of my 3D printed quad-copters. The larger is printed in PLA black and orange. The smaller is black ABS. Both have flown, but were out of commission when I took the photo! Both have been printed on a Duinotech TL-4090. The bigger can carry over a kilo! The small one is a 230 racing quad.

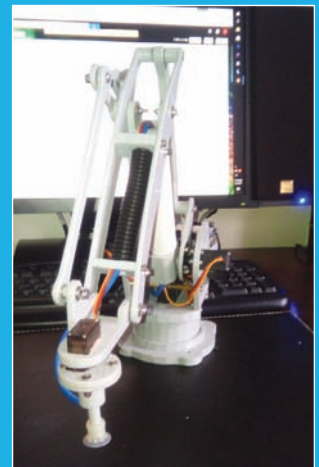


SHOW US YOUR BUILD COMPETITION

Gian Luca, who shops at our Jaycar Cheltenham store built:



3D printed robot, 4 x axis robot arms, 4 x RC servo motors, 1 x Arduino mega 25601 board shield prototype and 1 x 10 bearings..



FILAMENT GUIDE

COMPARISON GUIDE

Over these pages you can see that Jaycar sells an extensive range of 3D printer filaments from standard PLA to exotic filaments, including conductive, flexible and glow-in-the-dark. If you're wondering which filament to purchase, looking to fine-tune your printer, or just curious to find out what options are available have a look at the table below. Our in-house boffins have tested our filaments under all sorts of conditions to work out exactly what the best settings are for printing. We've listed recommended bed and nozzle temperatures, and other suggestions to get the best out of your filament.



Type:	Cat. Numbers:	Extruder Temp	Bed Temp	Notes:
PLA	TL-4110, TL-4112, TL-4114, TL-4116, TL-4118, TL-4120, TL-4122, TL-4138, TL-4060, TL-4062	180-220	20-55	PLA (Polylactic Acid) is one of the two most commonly used 3D printing filaments (with the other being ABS filament). It is the "default" recommended material for many 3D printers with good reason - PLA is useful in a broad range of printing applications, has the virtue of being both odourless and low-warp, and does not require a heated bed. PLA filament is also one of the eco-friendlier 3D printer materials available; it is made from renewable resources E.g. corn-starch, sugar cane. PLA plastic is often used in food containers, such as candy wrappers, and biodegradable medical implants, such as sutures. PLA filament for 3D Printing is available in a wide range of colours in both 1.75mm and 3mm.
ABS	TL-4070, TL-4072	220-235	80-110	ABS (Acrylonitrile Butadiene Styrene) is another commonly used 3D printer material. Best used for making durable parts that need to withstand higher temperatures. In comparison to PLA filament, ABS plastic is less "brittle" and more "ductile." It can also be post-processed with acetone to provide a glossy finish. When 3D printing with ABS filament, a heated printing surface is recommended, as ABS plastic will contract when cooled leading to warped parts. ABS filament is available in both 1.75mm and 3mm.
Glow in the Dark	TL-4134	180-240	20-80	Glow-in-the-dark filament is a great product to decorate children's bedrooms, from glowing light switches to a starry sky on the ceiling. Your prints will shine brightest immediately after turning out the lights, but dim quickly to a soft glow in the night. Use your normal print settings for PLA, but add more perimeters to your prints. The more perimeters, the more glow. Glow-in-the-dark filament is available in PLA filament 1.75mm.
Flexible	TL-4136	210-225	20-55	TPE filament is a flexible 3D printing material that feels and acts much like flexible rubber. TPE filament can be used to make parts that can bend or must flex to fit their environment: stoppers, belts, springs, phone cases, and more. Due to its flexibility, much slower print speeds must be used to keep the filament from binding in the extruder- we print at 20% speed.
Wood	TL-4124	175-250	30-50	This is a wood-like 3D printer materials that give 3D printed objects the look and feel of fibreboard. They imbue parts with other wood-like attributes, such as the ability to be cut, painted, and sanded. These filaments use PLA as their base, and mix other materials (usually in powder form) into them. The PLA gives the 3D printer compatibility and ease of use while the material contributes to the look, feel, and properties of the filament. With these organic fills, be cautious of too high of a temperature, as it will result in the wood burning which will give you a darker coloured print. It is important to remove the filament from the extruder fairly soon after finishing a print, as the filament will begin to burn in the nozzle and start to clog it.
Conductive	TL-4140	215-230	20-50	Conductive Filament is a modified PLA, designed for low voltage and low current circuitry. Conductive PLA filament is available in 1.75mm. Note: Due to the additive in this filament, it is very brittle and should be handled with care.
Wax	TL-4142	80-180	20-50	The wax based filament has a glossy appearance like wax, but a slightly soft rubbery feel because of the binders used to help it extrude. As you can imagine, it softens and melts at a much lower temperature than other filaments. Could be used to create lost wax models for casting, or even directly print an easily removable negative for direct casting.
Metallic	TL-4126, TL-4128, TL-4130, TL-4132	195-220	20-50	These metals infused PLA filaments are tougher to print than Standard PLA filament, but because of the metal blended with the plastic, prints are heavier and thus, feel more authentic. Finished 3D prints can be sanded and polished to create beautiful and unique pieces. Unpolished, the filament looks like cast metal fresh from a mould, with a dull, matte, gritty appearance. With just a little finishing and polishing, however, you can easily create any look like you desire. 3D Printing with these metals is perfect for printing jewellery, props, costumes, figurines, and robots. These filaments are great not only for hobbyists looking to make faux metal prints, but serious designers as well.

Filament for 3D Printers

Note: 3mm not suitable for 3D Pen



TL-4110

TL-4112

TL-4114

TL-4116



TL-4118

TL-4120

TL-4122

PLA - 250G:

▲ Dia.	Colour	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
1.75mm	Black	0.25kg	TL-4110	\$15.95	\$14.35	\$12.75
1.75mm	Red	0.25kg	TL-4112	\$15.95	\$14.35	\$12.75
1.75mm	Clear	0.25kg	TL-4114	\$15.95	\$14.35	\$12.75
1.75mm	Green	0.25kg	TL-4116	\$15.95	\$14.35	\$12.75
1.75mm	Blue	0.25kg	TL-4118	\$15.95	\$14.35	\$12.75
1.75mm	Yellow	0.25kg	TL-4120	\$15.95	\$14.35	\$12.75
1.75mm	White	0.25kg	TL-4122	\$15.95	\$14.35	\$12.75



TL-4070

TL-4060

ABS - 1KG ROLL:

▲ Dia.	Colour	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
1.75mm	Black	1kg	TL-4070	\$59.95	\$53.95	\$47.95
3.00mm	Black	1kg	TL-4072	\$49.95	\$44.90	\$39.90

PLA - 1KG ROLL:

▲ Dia.	Colour	Weight	Cat.	Qty 1+	Qty 3+	Qty 6+
1.75mm	Black	1kg	TL-4060	\$54.95	\$49.45	\$43.90
3.00mm	Black	1kg	TL-4062	\$54.95	\$49.45	\$43.90

1.75mm 3D Filament 10 Colour Pack

10 colours, 5 metres of each colour

- Total Kit Length: 50 metres
- Thickness: 1.75mm

Colours:

- Red
- Yellow
- Blue
- White
- Grey
- Orange
- Green
- Sky Blue
- Clear
- Black



▲	ABS	10 x 5m	Cat.	Qty 1+	Qty 3+	Qty 6+
			TL-4052	\$14.95	\$13.45	\$11.95

3D PRINTER EXOTIC FILAMENT

Our range of exotic filaments are sure to appeal to anyone interested in 3D printing. There's filament that makes your creation look like it's made from wood, glow-in-the-dark, flexible and colour changing filament when heat is applied, and more. Imagine the possibilities with the conductive filament shown below, and have a look at our new wax filament at the bottom of the page if you want to try your hand at low-cost wax casting. All of our exotic filaments are 1.75mm, supplied in 250g rolls, and are all suitable for our current and superseded 3D printers.

WAX 3D PRINTER FILAMENT - TL-4140

Wax filament for 3D printers suitable for lost-wax casting. Print your favourite 3D object and cast it in plaster (or any other casting material). Then remove the wax using heat (hence - lost wax) and use the plaster mould to cast your object in your favourite metal.



CONDUCTIVE 3D PRINTER FILAMENT - TL-4142

Bring your 3D printed projects to life with this electrically conductive PLA filament! Bulk resistivity is 0.6g.cm - note that this is not the same as "grams per centimetre", but refers to the resistance of a 1cm cube across opposite sides with full contact. The filament itself measures about 4k ohms per metre, so it is mostly suitable for signal level voltages, but it is conceivable that you could illuminate some LEDs for example. The conductive properties come from graphene imbedded in PLA which is a biodegradable.

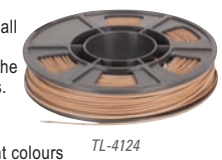
Note: Due to the additive in this filament it is very brittle and should be handled with care.



WOOD FINISH 3D PRINTER FILAMENT - TL-4124

Perfect for recreating antique furniture and recreating small wooden features. Prints with a smooth finish that is ideal for painting, or even finishing with a wood-burning tool. The colour also suits models of animals and natural creatures. Use with a 3D printer or our TL-4050 3D pen.

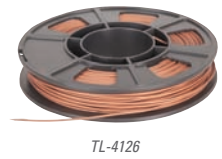
- Contains wood, so models smell like wood
- Can be printed at different temperatures to give different colours



COPPER FINISH 3D PRINTER FILAMENT - TL-4126

Did you know that the Statue of Liberty is made of copper? Now you can recreate any similar structure (miniaturised version of course) with this filament. Combine with Brass Finish Filament (TL-4130) for creating steampunk works, or brush with some green paint to give a classic corroded copper patina. Use with a 3D printer or our TL-4050 3D pen.

- Contains copper, giving models weight and excellent thermal properties



ALUMINIUM FINISH 3D PRINTER FILAMENT - TL-4128

Ideal for printing a classy looking enclosure for your next project. Could also be used to imitate silver or stainless steel. Gives a metallic look without the unwieldy weight normally associated with solid metal objects. Use with a 3D printer or our TL-4050 3D pen.

- Contains aluminium



BRASS FINISH 3D PRINTER FILAMENT - TL-4130

Perfect for recreating copper alloy antiques or for making imitation brass instruments, or combine with Copper Finish Filament (TL-4126) for those steampunk projects. Will not corrode or suffer from "ammonia attack" like the real thing!

- Contains brass, giving models weight and excellent thermal properties



GOLD FINISH 3D PRINTER FILAMENT - TL-4132

Gold colour only. This filament is every costume jeweller's dream come true! Your imagination will be the only limit as you recreate your favourite bracelet, ring or brooch. Create your own gold trophy or medal and thank yourself for a job well done. Use with a 3D printer or our TL-4050 3D pen.



GREEN GLOW IN DARK 3D PRINTER FILAMENT - TL-4134

Print your own bedroom skyscape or other novelty items with glow in the dark filament. Glows after exposure to most light sources.

- White material glows green



FLEXIBLE 3D PRINTER FILAMENT - TL-4136

If you're looking to print something with a bit of bendiness, try our flexible filament. Has excellent adhesion and prints well without splitting. Due to increased flexibility, printer may need modification to guide filament correctly.

- Pale pink skin-like colour



COLOUR CHANGING 3D PRINTER FILAMENT - TL-4138

Create some 3D printed artwork with an enchanting heat activated colour change effect. Colour change occurs below body temperature, so simply holding the printed object will cause the transition.

- Blue material changes to white on exposure to heat



FLEXIBLE TL-4136

GLOW IN DARK TL-4134

WOOD TL-4124

COPPER TL-4126

ALUMINIUM TL-4128

▲	Diameter	Roll	Cat.	Qty 1+	Qty 3+	Qty 6+
Wax	1.75mm	250g	TL-4140 NEW	\$39.95	\$35.95	\$31.95
Conductive	1.75mm	250g	TL-4142 NEW	\$19.95	\$17.95	\$15.95
Wood	1.75mm	250g	TL-4124	\$19.95	\$17.95	\$15.95
Copper	1.75mm	250g	TL-4126	\$24.95	\$22.50	\$19.95
Aluminium	1.75mm	250g	TL-4128	\$24.95	\$22.50	\$19.95
Brass	1.75mm	250g	TL-4130	\$24.95	\$22.50	\$19.95
Gold	1.75mm	250g	TL-4132	\$19.95	\$17.95	\$15.95
Green Glow in the Dark	1.75mm	250g	TL-4134	\$19.95	\$17.95	\$15.95
Flexible	1.75mm	250g	TL-4136	\$19.95	\$17.95	\$15.95
Colour Changing	1.75mm	250g	TL-4138	\$19.95	\$17.95	\$15.95

RELATED PRODUCTS

FROM
\$99.95
TS-1331



PLASTIC WELDING KIT

P179

FROM
\$14.95
TD-2128



NEEDLE FILE SET

P221

FROM
\$24.95
TD-2468



MINI ENGRAVER

P225

FROM
\$11.50
NP-4260



POLYMORPH PELLETS

P343

MOTORS

Standard DC Motors

THESE ARE NOT TOY MOTORS

Each motor briefly described below is a quality product with hardened drive shaft, sintered bearings and quality commutator brushes etc. They are ideal for any application where a compact high torque and reliable motor is required. Each motor is provided with a full data sheet which includes motor speed/torque/current/efficiency curves etc.

Generous discounts for quantity purchases.

- 2.3mm driveshaft
- M2.6 threaded mounting
- Generously ventilated
- Solder tag terminals

YM-2718



SPECIFICATIONS	YM-2712	YM-2716	YM-2718
VOLTAGE (V)	6	12	12
NO LOAD			
Speed (rpm)	13,500	14,500	13,000
Current (A)	0.55	0.28	0.67
AT STALL			
Torque (g.cm)	191	372	1,200
Current (A)	5.6	5.21	17.2
AT MAX EFFICIENCY			
Efficiency (%)	49.6	66.1	55.1
Power (W)	5.96	5.56	26.5
Speed (rpm)	9,679	13,544	10,489
Torque (g.cm)	60	40	246
Current (A)	2	1.0	4.0
AT MAX POWER			
Speed (rpm)	7,845	8,266	9,304
Torque (g.cm)	80	160	326
Current (A)	2.6	2.4	5.0
DIMENSIONS (mm)			
Diameter	27.6	27.6	35.8
Total length	51	57	71
Shaft length	12.5	13	9.5
Shaft dia	2.3	2.3	3.175
Mounting thread dia	2.6	2.6	3

▲ RPM	Volt	Cat	Qty 1+	Qty 5+	Qty 10+
16,200	6	YM-2712	\$8.50	\$7.50	\$6.75
14,500	12	YM-2716	\$9.95	\$8.75	\$7.75
14,600	12	YM-2718	\$14.95	\$13.35	\$11.70

Hobby Motors

Two models available. Ideal for hobbyist, experimenters, robotics and as replacements.

SPECIFICATIONS	YM-2706	YM-2707
Torque	Low	Medium
Operating volts	1.5-4.5V	1.5-4.5V
Nominal volts	3V	4.5V
Speed (no load)	12000rpm	12500rpm
Current (no load)	0.28A	0.25A
Speed (max eff)	8540rpm	9560rpm
Current (max eff)	0.69A	0.81A
Torque (max eff)	7.94gcm	17.86gcm
Diameter	20mm	23.6mm
Total length	25mm	25mm
Shaft length	8.1mm	6.5mm
Shaft dia	2mm	2mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Low	YM-2706	\$3.50	\$3.15	\$2.75
Medium	YM-2707	\$4.95	\$4.45	\$3.90

Low Cost Motor / Gearbox Set

This unit comes complete with a 3V 12,000 rpm motor*. It can be stepped down (with the consequent torque multiplication) up to six times as shown below. The motor is fitted with a 12 tooth pinion and the small gear cluster is 12 tooth. The large clusters are all 48 tooth. Not all gears need to be used. The intermediate output shafts are hardened steel, 3mm dia. Also supplied are press fit pulleys. The whole assembly snaps together. Hand tools are almost unnecessary.

*Motor can also be varied by changing input voltage but this lowers torque.

SPECIFICATIONS	RPM	Motor cage - 40H x 25W x 28Dmm / Gearbox cluster - 40(W) x 25(D) x 30(H)mm
12,000 x 12/48	3,000	
3,000 x 12/48	750	
750 x 12/48	187.5	
187.5 x 12/48	46.875	
46.875 x 12/48	11.72	
11.72 x 12/48	2.93	



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	YG-2730	\$12.95	\$11.35	\$10.35

Standard (High Power) DC Motors

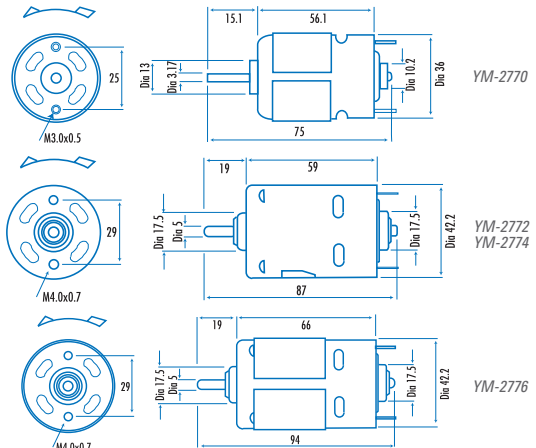
Astonishing speed and power from these compact ferrite magnet type DC motors.

All units feature hard steel drive shafts, long life design and are built in an ISO 9002 quality environment.

YM-2774



SPECIFICATIONS	YM-2770	YM-2772	YM-2774	YM-2776
VOLTAGE (V)	12	6	12	12
NO LOAD				
Speed (rpm)	11,800	20,000	18,800	9,700
Current (A)	0.8	4.0	2.6	1.3
Operating range (V)	6-12	3-6	6-12	6-18
AT STALL				
Torque (g.cm)	2700	1910	4900	6000
Current (A)	26	67	92	57
AT MAX EFFICIENCY				
Efficiency (%)	76	57	71	73
Power (W)	43	45	107	52
Speed (rpm)	9800	13730	15520	8490
Torque (g.cm)	420	320	670	600
Current (A)	4.7	13.5	12.8	6.0
DIMENSIONS (mm)				
Diameter	36	42	42	42
Total length	75	87	87	94
Shaft length	15	19	19	19
Shaft diameter	3.17	5.0	5.0	5.0
Mounting thread	M3	M4	M4	M4



▲ RPM	Volt	Cat	Qty 1+	Qty 5+	Qty 10+
11,800	12	YM-2770	\$12.95	\$11.35	\$10.35
20,000	6	YM-2772	\$18.95	\$17.05	\$15.15
18,800	12	YM-2774	\$17.95	\$15.95	\$14.35
9,700	12	YM-2776	\$17.95	\$15.95	\$14.35

Hand Crank Dynamo with Geared Motor

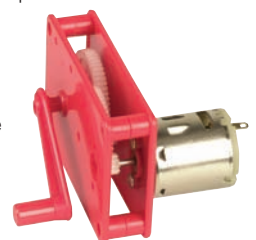
Here's a great gadget that will allow you to add Green power to any of your projects.

What we have here is a hand crank dynamo, pre-assembled but easily modified to be retro-fitted to existing equipment or added to new projects.

Crank the handle and the specially designed gear set will operate the motor and produce a DC voltage which can be used for a variety of low current uses (charging batteries, lights etc).

Crank slowly and the voltage is low, crank harder and the voltage is higher.

Made from plastic - easy to re-work to fit your projects.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	MD-7000	\$19.95	\$17.95	\$15.95

MOTORS (CONTINUED)

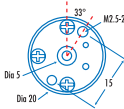
12V DC Reversible Gearhead Motors

The motors work equally well in forward or reverse motion. More specifications available on our website.

SPECIFICATIONS	YG-2732	YG-2734	YG-2738
Torque g.cm	2100	12,000	50,000 @ 55rpm
Rated Voltage (Volts)	12.0V	12.0V	12.0V
Operating (Volts)	4.5 - 18Vmax	4.5 - 18Vmax	6 - 12Vmax
Current - no load (mA)	30	70	<450mA
Current - full load (mA)	390	1380	14000
Gear ratio	82:1	244:1	50:1
Shaft speed (rpm)	70	36	160

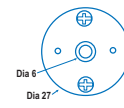
YG-2732

This compact unit will give a massive 2.1 kg.cm of torque at 70RPM. Current draw rises to a modest 390mA.



YG-2734

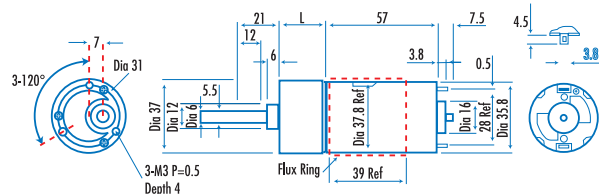
Only slightly larger than the unit above, but with a massive increase in torque at 36RPM. Ideal for driving wheels or other traction devices.



YG-2738

For heavy duty applications. Massive 50kgs torque at 55RPM

- Specifications may vary



▲ RPM	Volt	Cat.	Qty 1+	Qty 5+	Qty 10+
70	12	YG-2732	\$14.95	\$13.35	\$11.70
36	12	YG-2734	\$23.95	\$21.35	\$18.95
55	12	YG-2738	\$43.95	\$38.45	\$34.95

GEARBOX SPEEDS

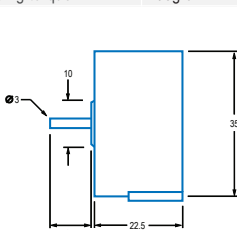
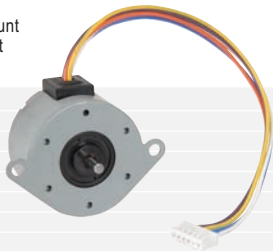
Note: All DC motors and motor gearboxes can change speed to a considerable amount by changing voltage within specified limits. This reduces need for special gear ratios for your application.

TECH TALK

12VDC 48 Step / 7.5° Stepper Motor

Standard 48 step / 7.5° design, with flange mount 3.0mm hardened steel shaft. Suitable for object control, numerical control etc..

SPECIFICATIONS	YM-2754
Rated voltage	12VDC
Rated current	1.1A/phase
Phases	4
Steps per revolution	48
Stepping angle	7.5°
Drive method	Unipolar chopper drive
Resistance per winding	20 ohms
Starting frequency	600pps (max)
Holding torque	700g.cm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM-2754	\$24.95	\$22.35	\$19.70

SERVOS

Arduino Compatible 9G Micro Servo Motor

Micro servo motor, perfect for use with XC-4618 Pan and Tilt bracket. Small enough to connect directly to an Arduino Board for experimenting.

- 3.5V- 6V Supply Voltage
- 500 degrees/second at 6V
- 1.6kg.cm at 4.8V
- Dimensions: 30 x 30 x 10mm



See page 326 for Pan & Tilt Bracket to suit

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM-2758	\$9.95	\$8.75	\$7.75

Mini Servo 4.8V-6V

Mini sized servo perfect for remote control or robotics applications where size is at a premium.

SPECIFICATIONS YM-2760

Dimensions	35(L) x 16.9(W) x 32(H)mm
Weight	26g
Torque 4.8V	3400g.cm
Transit Time 4.8V	0.19 sec/60°
Torque 6V	4200g.cm
Transit Time 6V	0.15 sec/60°



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	YM-2760	\$19.95	\$17.70	\$15.70

Servo Motor - Standard 6V with Metal Gear - 13kg.cm

These metal gear servos are an excellent replacement for the standard servos commonly used in all 1:10 and many 1:18 scale remote control cars, or for use in any number of robotics applications. They feature digital control and super-tough metal gear construction with very high torque and super-quick rotational speeds. Perfect for the steering servo on an off-road truck or buggy where precise control and strength are needed.

- High speed and high torque digital servos
- Dual ball bearing
- Metal gears for maximum strength and durability
- Operating Voltage: 4.8-7.2V
- Connector wire: 32cm
- Includes control horns and screw set
- Weight: 55g
- 40.7 x 19.7 x 42.9mm (standard servo size)
- Operating speed 4.8V: 0.25 sec/60° Cat. YM-2763
- Operating speed 4.8V: 0.20 sec/60° Cat. YM-2765



▲	Cat.	Qty 1+	Qty 5+	Qty 10+	
	Torque 4.8V 13kg.cm	YM-2763	\$34.95	\$31.45	\$27.90
	Torque 4.8V 11kg.cm	YM-2765	\$34.95	\$31.45	\$27.90

SOLENOIDS

Range of DC & AC solenoids and actuators. Made to our factory specifications. You can safely design them in knowing that they will be available over the long term. Generous quantity discounts. See website for datasheets.

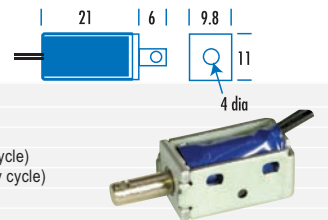


Ultra Miniature 12V

Small square frame unit, Pull type. Full data supplied with unit

SPECIFICATIONS SS-0900

Coil resistance	131Ω
	10 watt (max)
Pulling force	20 - 160g (25% duty cycle)
Stroke	0.5 - 4.0mm (25% duty cycle)
Total weight	10g
Plunger weight	2g



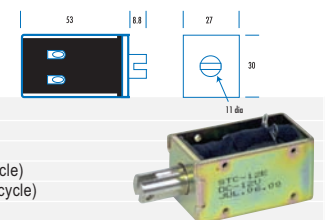
▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	SS-0900	\$13.95	\$12.35	\$10.95

Standard 12V

Regular size square frame unit, Pull type, solder tip. Full data supplied with unit

SPECIFICATIONS SS-0902

Coil resistance	24Ω
Rated power	6 watt
Pulling force	200g-2kg (25% duty cycle)
Stroke	2.0 - 12mm (25% duty cycle)
Total weight	205g
Plunger weight	39g

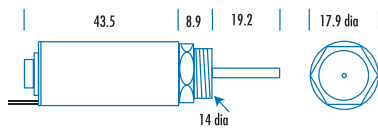


▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	SS-0902	\$27.95	\$24.95	\$22.35

SOLENOIDS (CONTINUED)

Tubular 12V

Compact size, Push type.
Full data supplied with unit



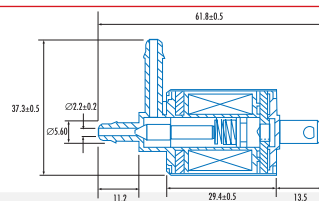
SPECIFICATIONS	SS-0903
Coil resistance	25.6Ω
	20 watt @ 25% duty cycle
Pulling force	220 - 940g (25% duty cycle)
Stroke	1.0 - 6.0mm (25% duty cycle)
Total weight	81g



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	SS-0903	\$27.95	\$24.95	\$22.35

12VDC Solenoid Valve

Air valve solenoid, normally closed.
Standard 1/4" Barb type hose fittings



SPECIFICATIONS	SS-0905
Operating voltage	12VDC
Operating current	350mA
Air Leakage	1cc/min max at 4 PSI



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	SS-0905	\$19.95	\$17.95	\$15.95

TAMIYA POWER TRANSMISSION COMPONENTS

Single Motor 4 Speed Gearbox / Axle Assembly

This brand-new Tamiya product features an all plastic moulded gearbox and motor casing. Included is a FA-30 type 3 volt electric motor, axle with 2 crank arm and tube of grease.

These gear ratios are user selectable:

12.7:1	114.7:1
38.2:1	344.2:1



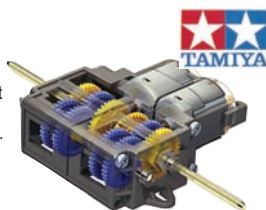
▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Single	YG-2740	\$18.95	\$16.95	\$14.95

Double Motor Independent 4 Speed Gearbox / Axle Assembly

Basically a double version of the unit above. Each motor can be separately driven and therefore when wheels are connected could rotate on the spot. Each gearbox is independent so it is possible to set different gear ratios for each box. Includes 2 x FA-30 type 3 volt motors.

The following gear ratios are user selectable:

12.7:1	38.2:1
114.7:1	344.2:1



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Double	YG-2741	\$23.95	\$21.35	\$18.95

Pulley Set

This set would typically be used to transfer power in small energy systems. Set includes 2 x each 50 & 25mm pulleys, 2 x 11mm pulleys, bushings, screws, nuts and 1 metre of rubber drive band. This type of system will absorb transmission shock.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Large	YG-2869	\$12.95	\$11.35	\$10.35

GERMAN MADE. These precision engineered components are a delight to play with. They offer solutions to small power transmission problems. We make no apologies for the price because well, they are German and they are magnificent quality.

Solid Shaft Couplers (Female)

Machining from solid brass stock – 16mm long, 12mm diameter. Type I will connect 2 shafts on a common axis. Type II will reduce from 6.0 diameter to 4.0 diameter.

• Shaft fixed with grub screws.

TYPE I Cat. YG-2600

TYPE II Cat. YG-2602

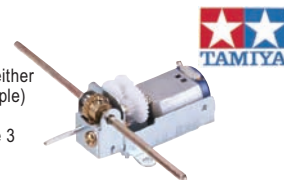


▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Type I	YG-2600	\$9.95	\$8.75	\$7.75
Type II	YG-2602	\$9.95	\$8.75	\$7.75

2 Shaft Universal Motor / Gearbox Set

This gearbox has a main output shaft exiting either side of the gearbox (to drive wheels, for example) and another single-ended shaft at 90° to the former. The gear set can be configured to give 3 set speeds.

• Metal chassis, includes motor.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Universal	YG-2742	\$18.95	\$16.95	\$14.95

CHARGER LEADS FOR RC VEHICLES & TOYS

2mm Male & Female Gold Connector Charger Leads

A range of charger, power and test cables with banana plugs, alligator clips and JST connectors, commonly used for toys, robotics, models, remote control hobby. Supplied with one red and one black quick connect 2mm wire set. Ideally used in battery packs or any other applications where good connection is required but can be easily and quickly removed.

- 1 x 2mm female gold connector, 20AWG silicone wire
- 1 x 2mm male gold connector, 20AWG silicone wire
- Both approximately 100(L)mm each



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	WC-6018	\$4.95	\$4.45	\$3.90

Aluminium Hub with Set Screws

This device will accept a 6.35mm (1/4") shaft, set screw fixed, and connect to the flat face of a gear, typically the flat side of the larger 48 pitch gears.

- Coupling from the gear to the hub by 4 x set screws provided. Enables a motor to be securely fastened to a driving gear.
- Hub 7/8" (22.5mm) dia.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	YG-2784	\$8.95	\$7.95	\$6.95

Gear Set & Spur Gear Set

Gear set contains one pinion gear and two different sizes of radio gears. Spur gear set contains three different spur gears.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Gear Set	YG-2630	\$9.95	\$8.75	\$7.75
Spur Set	YG-2632	\$8.95	\$7.95	\$6.95

Worm Drive Set

This set consists of a worm gear 24mm long x 12mm dia with an 8 turn worm screw. The worm has a 2.8mm axle hole which could probably be carefully drilled out to a larger diameter. The spur gear is 1/4" (6.35 wide) and 1 & 5/8" (41.2mm) diameter with a number of regular pitch-concentric 2.8mm holes across the face of the gear including one dead centre. It would be drilled out to accommodate a larger shaft. This gear has 40 teeth. Both are moulded in an engineering grade plastic.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	YG-2736	\$9.95	\$8.75	\$7.75

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!



Smart Technology.



MOBILE ACCESSORIES

3G Antennas	369
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FM Transmitters	356

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Smartphone Accessories	368
Speakers	370
USB Chargers	359
Video Converters	367

IN-CAR FM AUDIO TRANSMITTERS

MP3 FM Modulator with Remote - 12/24V

Simply plug in to your cigarette lighter socket, this unit will play MP3 tracks directly through your car stereo through the FM band. Music can be stored on an SD/MMC card, USB memory stick or an external media player (iPods®, MP3 players) can be plugged in via the auxiliary input. It has a backlit LCD and a fully adjustable arm for multi angle viewing. It also remembers the last played frequency, song and volume.

- Accepts SD/MMC, USB or aux input
- FM Frequency: 87.5 to 108MHz
- 12V - 24VDC operation
- Supports folders
- Includes infrared remote control & 3.5mm AUX lead
- Dimensions: 130(L) x 40(W) x 25(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AR-3136	\$14.95	\$13.45	\$11.95

In-Car MP3/USB FM Modulator Transmitter for iPhone® & iPod®

Play your iPhone® or iPod® through the FM radio in your car. Plug into the cigarette lighter socket, then tune to the FM band to play and charge your iPod®, iPhone® or use the 3.5mm stereo cable to play any other MP3 player or auxiliary audio source. It also has a USB socket, so you can also play tunes from a flash drive. The strong clamp is adjustable to take devices from 40 - 80mm wide.



Note: iPhone® not included

SPECIFICATIONS	AR-3113
Range	5m
Frequency range	88 - 107MHz
Dimensions	110(H) x 65(W) x 40(D)mm

▲	Cat.	Qty 1+
	AR-3113	\$24.95

Transmitter/Charger/Gooseneck In-Car Holder

A necessary accessory to have for your iPhone 5® and iPod® in your vehicle. The bracket holds the device in place and charges the device through the Lightning™ connector. It has a built in FM transmitter that allows you to stream your conversation and music to your car's sound system for Hi-Fi reproduction. The unit connects to 12V power via the cigarette lighter socket and has a rigid gooseneck/ swivel bracket to hold at the desired position.



- Range: 5m
- Frequency: 88 - 107MHz

Note: iPhone® not included

▲	Cat.	Qty 1+
	AR-3125	\$24.95

IN-CAR BLUETOOTH® TRANSMITTERS

Smartphone Media Button

Great for the car, gym or around the house. Sync with your Bluetooth® enabled device for volume, play/pause, and next/previous track control. Extremely light and compact.

- Plug and Play
- Bluetooth® Standards
- Supplied with steering wheel mount

SPECIFICATIONS	AR-3137
Active Range	40m
Battery	CR2016 3V
Dimensions	35(Dia.) x 8(H)mm



NEW 2017

1 YEAR WARRANTY

Bluetooth®

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AR-3137	\$29.95	\$26.95	\$23.95

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In-Car FM Transmitter & Charger to suit iPhone 5®

A convenient way to playback music from your iPhone 5® Smartphone through your car's sound system. It features a Lightning™ connector to charge an iPhone 5® and a 3.5mm plug for audio streaming through the FM radio band. The transmitter also has a microphone built-in so you can also enjoy handsfree conversations while driving. A handy USB port is featured on the back of the cigarette lighter plug for charging other phones, tablets and GPS devices.

SPECIFICATIONS	AR-3127
Range	5m
Frequency	88.1 - 107.9MHz
Power	5VDC
USB Output	5VDC 800mA
Stereo separation	40dB
Frequency response	20Hz-16000Hz
SNR	>= 45dB
Dimensions	100(L) x 30(W) x 12(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AR-3127	\$29.95	\$26.95	\$23.95

FM Transmitter with Bluetooth® Technology & 2.1A USB Charger

Allows you to transmit phone calls from a Bluetooth® enabled phone to your car's FM radio receiver. Features a 2.1A USB charging port and will also play audio via the external input socket or MP3 files stored on USB disk or SD card. Auto switch between music and phone calls. Powered by the vehicle lighter socket (12 or 24 volt).

- Frequency range: 87.5-108MHz
- Includes remote control



1 YEAR WARRANTY

Bluetooth®

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AR-3133	\$44.95	\$39.95	\$35.95

CD/Cassette Adaptor

An alternative to using Bluetooth®. Play your portable CD or Smartphone through your car stereo cassette system. Using the headphone socket on your MP3 player or Smartphone.

- No power or batteries required
- Supplied with 1.1 metre lead & 3.5mm stereo plug



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AR-1760	\$16.95	\$14.95	\$13.35

Mini Bluetooth® Receiver with USB Charging

This ingenious device provides Bluetooth® audio streaming on Hi-Fi and other audio playback devices without native Bluetooth®. The receiver recharges using the included USB recharge dock, then plugs into your 3.5mm audio socket. Then you simply pair your streaming device to the dongle and it's as if you connected a 3.5mm audio cable (but there's nothing to trip over!). The dongle itself includes playback controls, as well as a microphone, meaning you can use it as a full function hands-free device if you are paired with a smartphone. When it's running low on battery, simply pop it back into the USB charger and connect to a USB port to charge.

SPECIFICATIONS	AA-2105
Bluetooth® Distance	8m
Battery Capacity	100mAh 3.7V
Charging Time	2.5hrs
Talk Time	About 3hrs
Music playing Time	Up to 5hrs
Standby Time	20hrs
Working Interface	3.5mm Line Level Audio
Weight	26g
Dimensions	63(D) x 30(Dia.)mm



Bluetooth®

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-2105	\$29.95	\$26.95	\$23.95

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IN-CAR HANDSFREE KITS

Rechargeable Visor Mount Handsfree Kit with Bluetooth® Technology

Safely and comfortably make and receive mobile phone calls whilst driving with this user friendly visor mounted Bluetooth® car kit. This compact and lightweight kit features built-in highly sensitive microphone, high powered loudspeaker, and dual standby allowing two phones to connect simultaneously, which is very handy when you own two phones or share the car with another person. The built-in memory allows it to store up to 8 paired phone records.

- DSP full duplex technology
- Noise, echo and wind suppression
- Built-in rechargeable 600mAh Li-ion battery
- Sunvisor holder, USB cable and 12V car charger included

SPECIFICATIONS	AR-3134
Bluetooth® version	V3.0+EDR
Bluetooth® range of operation	0 to 10m
Hands-free talk range	0.5 to 2m
Talk time	6 to 10 hours
Charging time	3 hours
Input charging voltage	DC 5V (600mA)
Dimensions	86(L) x 53(W) x 15(H)mm, 60g



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Visor Mount Handsfree Kit	AR-3134	\$39.95	\$35.95	\$31.95

Bluetooth® In-Car Earpiece with USB Charger

This Bluetooth® unit is tiny and smart. It connects to your Bluetooth® enabled smart device, then sits in your ear like a small earphone to provide hands free communication. It weighs in at just 5g, and features the simplest recharging we've seen. No fumbling with tiny cables, simply push it into the supplied cigarette lighter adaptor. Small magnets will hold it onto the charger but enable quick release when you need it. One 2.1A and one 1A charging ports are included on the charger, to power and recharge your devices.

- Magnetic charging dock - no cables!
- Includes cigarette lighter adaptor
- USB 2.1A and 1A charging ports



SPECIFICATIONS	AR-3135
Earpiece Weight	5g
USB Charging Current	2.1A @ 5VDC, 1A @ 5VDC
Dimensions	23(W) x 26(H) x 27(D)mm (earpiece) 90(L) x 32(Dia.)mm (charger)

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
In Car Earpiece	AR-3135	\$39.95	\$35.95	\$31.95

IN-CAR MOUNTING BRACKETS

Magnetic Mobile Phone Holders

No more adjusting clamps or clips with these magnetic mobile phone holders! The high strength magnet holds the phone in place allowing for quick placement and removal. Available in three versions with a suction or adhesive mount for the vehicle, all versions include an adjustable ball joint so you can tilt the phone to the optimal viewing angle. Suction mount models also include metal plates for attaching to phones without a non-magnetic housing. Plates are also thin enough to be inserted between phone and an existing protective case.

SHORT ARM SUCTION MOUNT CAT. HS-9054

- Mounts the phone close to the suction cup
- 60mm arm length
- 65mm diameter suction cup

LONG ARM SUCTION MOUNT CAT. HS-9055

- Extends the phone away from the suction cup
- 160mm flexible arm length
- 65mm diameter suction cup

MINI BALL JOINT ADHESIVE MOUNT CAT. HS-9056

- Attaches unobtrusively to most surfaces
- 3M brand adhesive on ball joint base and magnet
- 30mm mount height
- 25mm diameter base

Smartphone not included



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Small	HS-9054	\$19.95	\$17.95	\$15.95
Large	HS-9055	\$19.95	\$17.95	\$15.95
Magnetic Dash Phone Holder	HS-9056	\$19.95	\$17.95	\$15.95

Spring Clamp Suction Mount Phone Holder

Suits virtually any smartphone, and securely mounts to your windscreen or other non-porous flat surface with a super strong suction cup. The bracket adjusts to firmly hold your phone in place. The ballhead allows total 360° rotation. Bracket adjusts between 55 and 80mm.

- High strength suction cup
- Universal phone compatibility
- 360° rotation
- Weight: 65g
- Dimensions: 125(L) x 75(W) x 95(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Suction Mount Phone Holder	HS-9039	\$19.95	\$17.95	\$15.95

Phone Holder - Air Vent Magnetic

This simple device allows you to easily hold your smartphone in a convenient position (for use when safely parked of course). The mount itself simply slips firmly onto the grilles of your air-vents. You then have two options: use the small (40mm Dia.) adhesive mounting plate, or slip the 40 x 60mm mounting plate inside your protective case. Both mounting places are just a fraction of a millimetre thick and weigh barely 1 gram, so you won't even notice it's there. Then by simply putting your phone close to the magnetic holder, it will firmly snap into place. Simply pull to remove! No clips, cradles, or other inconveniences. The magnetic mount itself is also rubber-moulded so the strong magnet won't scratch your phone (or phone case).

Product may differ slightly to one shown

Note: iPhone® not included

SPECIFICATIONS	HS-9057
Adhesive Mounting Plate	40(Dia.)mm
Non-Adhesive Mounting Plate	40(W) x 80(H)mm
Dimensions	44(Dia.) x 37(D)mm, 32g

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	HS-9057	\$19.95	\$17.95	\$15.95

Universal Dash & Windscreen Phone Holders with Sticky Grip

A quick, easy and secure way to hold your Smartphone as you drive. The special green silicon gel sticky material holds your phone in place so there's no need for custom phone bracket holders, working by sticking to the smooth surface of your Smartphone/device. It's so fast too, just press your phone onto the sticky pad, and that's it! The sticky pad doesn't leave any residue, and if it gets dirty it can be cleaned with water to return to an as-new state. Easy!

STICKY DASH / VENT MOUNT - HS-9050

Mounting is via a short dash mount suction bracket that has soft silicon gel, which can stick to almost any dash material, even textured vinyl. Also includes an air vent mount.

WINDSCREEN MOUNT - HS-9052

Includes a suction cup bracket that attaches to your windscreen, with an adjustable gooseneck arm to move your phone into position. The sticky phone end can also be rotated for portrait or landscape view.

Note: May not work with some phone covers. Requires a smooth, hard finish for the sticky to work



HS-9050



HS-9052

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Sticky Dash / Vent Mount	HS-9050	\$17.95	\$16.10	\$14.35
Windscreen Mount	HS-9052	\$17.95	\$16.10	\$14.35

IN-CAR MOUNTING BRACKETS (CONTINUED)

Gooseneck Windscreen or Cigarette Lighter Universal Mount

Mounting your GPS/PDA/Mobile phone where it can obstruct your vision is very dangerous. With this handy dooberlacky, you can either plug into your cigarette lighter socket or mount it on the windscreen glass. The gooseneck allows it to be mounted where it won't obstruct your vision. The bracket adjusts to fit your device and can be rotated through 180° to accommodate wider devices, such as larger GPS units. The cigarette lighter mount has a piggyback socket so you can use the outlet to power your device.

- Base diameter: 67mm
- Gooseneck: 180mm long
- Note: Mobile phone not included



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	HS-9002	\$34.95	\$31.45	\$27.95

Smartphone Waterproof Case with Windscreen & Bike Mount

Keep your phone secured and protected but accessible while mountain biking, boating or for other outdoor activities. It will accommodate an iPhone® or Samsung Galaxy S3® with the use of a specially designed adaptor. The front of the case uses a flexible transparent rubber covering while the rear also has a clear rear cover for your camera. A 3.5mm cable connects to the phone inside and provides a socket so you can connect headphones while the phone is in the case. IPX8 waterproof design so will protect the device inside when fully submersed down to a 1m depth. Includes: IPX8 case, suction glass mount bracket and handle bar mount bracket.

- 3.5mm internal cable to allow the use of headphones
- Compatible with: Samsung Galaxy S3®, iPhone 5®, 4G, 4Gs, 3G, 3Gs, 2G and the iPod® Touch and mobile
- Dimensions: 170(L) x 86(W) x 22(H)mm



Note: iPhone® not included



▲	Cat.	Qty 1+
IPX8	HS-9023	\$29.95

12VDC Charger Cradle for iPhone® 3/4

Holds and charges your iPhone® as you drive. The holder plugs directly into the car cigarette lighter and has charging cradles to suit both iPhone® generations and a universal holder for other types of mobile phones. The iPhone® cradle doubles as a protector case whilst out and about and docks securely into the holder bracket when you get back in the car.

- Power: 12VDC
- Includes a case/cradle for both iPhone® 3 & 4

Note: iPhone® not included



▲	Cat.	Qty 1+
Charging Cradle	HS-9012	\$6.95

Waterproof Hard Tablet Case with Suction Mount

Keep your Tablet safely protected inside one of these hard cases. Will protect against water, dust, and sludge. The screen protector is a tough flexible highly translucent silicone compound that has the gasket moulded into it. 3 locking tabs will ensure everything stays secured inside without the risk of an accidental open. There is a 3.5mm stereo audio plug which converts to a socket on the outside for connection to your car stereo or other speaker system. A clear plastic covered opening on the back will allow photos to be taken with the tablets camera. Comes with a suction glass mounting bracket.

- Suitable for iPad mini, Google nexus and most other 7.7" tablets
- IPX8
- Includes glass suction mount bracket
- Dimensions: 230(L) x 153(W) x 22(D)mm



▲	Cat.	Qty 1+
7.7"	HS-9027	\$49.95

Universal Tablet Headrest Mount

Almost totally universal to fit any car and any tablet (well, just about). It will fit headrests with support posts between 40mm and 170mm apart (basically any car). You can then install your tablet between 120 and 195mm high (that's a lot of tablets too). Tighten all the adjustable components and your tablet is held firmly in place with the padded, non-slip clamps. You can rotate the tablet 360° thanks to a strong ball-joint, and also tilt/swivel the tablet approximately 60° to your liking.

- Padded clamps to protect your device
- 360° rotating ball-joint
- Fits just about any vehicle

SPECIFICATIONS	HS-9033
Clamp Height	120 - 195mm adjustable
Headrest Compatibility	40 - 170mm wide
Weight	185g



NEW
2017



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	HS-9033	\$19.95	\$17.95	\$15.95

Tablet Holder with Heavy Duty Suction Mount

Designed to be fixed in one position but can be easily adjusted if necessary, this holder will accommodate a variety of different sized Smartphones and Tablets for your car, truck, or van. The adjustable holder sits on a lockable ball joint for angular adjustments to get the perfect viewing angle. The holding vice (sides and bottom) can be slid out of their grooves and moved to a wide or narrow grip. Vertical height can be lowered or raised and the main arm can be locked at specific vertical angles. Features a suction mount for an extremely tight grip on a window or dash surface.

- Compatible with iPad®, Android®, surface Tablets
- Dimensions: 190(H) x 140(L) x 140(W)mm



Note: iPad® not included



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	HS-9036	\$39.95	\$35.95	\$31.95

Universal Tablet Holder with Heavy Duty Suction Mount

Uses an extremely tough suction mount with a heavy duty adjustable gooseneck connected to a locking ball joint. The Tablet holder grip can be made wide or narrow by changing the grooves they're slid into. For a semi-permanent solution for Tablet access in a car, truck, or caravan this solution is ideal.

- Suitable for iPad®, Android® & surface Tablets
- Gooseneck 239(L) x 110(Dia.)mm
- Holder 185(H) x 165(L) x 135(W)mm



Note: iPad® not included



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	HS-9034	\$34.95	\$31.45	\$27.95

Waterproof Carry Case for iPad® & Tablets

IPX8 rating allowing full water submergibility and dust-proofing. It's great for recreational activities such as camping, kayaking, and boating.

- IPX8 waterproof rating
- Dimensions: 320(L) x 214(W) x 2(D)mm
- Fits tablets up to 243(L) x 190(W) x 13(D)mm



Note: iPad® not included

Limited Stock

▲	Cat.	Qty 1+
IPX8	HS-9022	\$19.95

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UNIVERSAL IN-CAR CHARGERS

Universal USB Mobile Phone Car Charger

The handy universal solution to charging your mobile phone in the car. Included is a cigarette lighter USB car charger capable of delivering 5VDC up to 1A via the USB output, as well as a universal USB charging lead with 9 interchangeable tips to match all the most common mobile phones. You can also use it with any existing USB charging lead you may have.

Plugs included:

- USB Mini 5pin
- USB Micro B
- iPhone®/iPod®
- Sony Ericsson
- LG
- Motorola
- Samsung
- Nokia 2 & 4mm



SPECIFICATIONS	MP-3578
Input	12 - 24VDC
Output	5VDC, 1.0A



▲		Cat.	Qty 1+	Qty 5+	Qty 10+
	1A	MP-3578	\$19.95	\$17.70	\$15.70

Cigarette Lighter Adaptor Cable

Contains no circuitry and allows you to power 12V devices from your car cigarette lighter socket.

- Cable length 1.8m long
- Fused
- LED power indicator. Supplied with 8 DC plugs. 2.35 x 0.75, 3.5 x 1.35, 4 x 1.7, 5.5 x 1.5, 5 x 2.1, 5.5 x 2.5, 2.5mm & 3.5mm. (OD first then ID)



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	1.2m 1A	PP-1996	\$9.95	\$8.95	\$7.95

IN-CAR USB CHARGERS - WITH LEADS

iPhone®/iPod® Car Charger/Audio Kit

Suited to in-car stereo systems with 3.5mm audio-in socket to play music from popular, portable audio devices. Listen to your favourite songs from your iPhone®/iPod® using the integrated audio cable (with a 3.5mm stereo adaptor) while charging it via the supplied cigarette lighter adaptor. Lead length is 1.2m and USB output is 1A.



Limited Stock

▲		Cat.	Qty 1+
	1A	MB-3653	\$9.95

In-Car Quick Charger for iPhone 5®, iPad® etc.

A handy in-car charger suitable for charging the latest Apple® brand gadgets such as iPhone 5® and iPad®, which have the new Lightning® connector socket. With 2.1A of charge current available, this in-car charger is capable of charging your Apple® device at full speed, ensuring you get as much charge as possible on your commute.

- Input: 12-24VDC
- Output: 5VDC 2.1A
- Lead length: 900mm with Lightning® connector
- Compatible with: iPhone 5® & 5s®, iPad mini®, iPad® (4th generation), iPod Touch® (5th generation), iPod Nano® (7th generation)



▲		Cat.	Qty 1+	Qty 5+	Qty 10+
	2.1A	MB-3668	\$14.95	\$13.35	\$11.70

2.4A Car Charger with Lightning® Lead for iPhone®, iPad®, iPod® - MFi

An official licensed "Mfi" (made for iPad®, iPhone®, iPod®) charger. The main cigarette charger has a single USB output, and the supplied Lightning® charge and sync lead can be used to sync your Apple® device to your computer at home.

- Input: 12VDC
- Output: 5VDC 2.4A



Made for
iPod iPhone iPad



▲		Cat.	Qty 1+	Qty 5+	Qty 10+
	2.4A 1m	MP-3660	\$29.95	\$26.90	\$23.70

Universal GPS Charger with Dual USB Output

This very handy universal GPS charger not only works as a replacement for an original GPS charger, but having two USB outputs and higher output power offers a bonus - allowing you to charge both your GPS and your mobile phone (or other USB device) at the same time! With 2.1A available from each USB port, it has enough power for even the latest and greatest big screen GPS models, whilst still having enough power left over to charge a second USB device. Supplied with 1.2m USB charging lead and 6 replaceable connectors to suit most GPS models.

- Suitable for: TomTom, TomTom XL, Navman, Garmin, Magellan, Navion, Falk, Mio, etc
- Input: 12-24VDC
- Output: 5VDC, 2.1A max per USB port (4.2A total)
- Dimensions: 100(L) x 42(W) x 25(H)mm



▲		Cat.	Qty 1+	Qty 5+	Qty 10+
	1.2m 4.2A total	MP-3676	\$29.95	\$26.95	\$23.95

3A Car Power Adaptor with USB Outlet

Select a DC voltage and adaptor tip combination to power or charge a wide range of consumer electronics goods such as personal audio players, digital cameras, handheld gaming consoles, mobile phones, PDAs, PSP, etc. Many modern devices will also charge via the USB outlet.



SPECIFICATIONS	MP-3671
Input voltage	12VDC
Output voltage	3, 4.5, 5, 6, 7.5, 9.5, 12VDC
Output current	3A
USB output	5VDC, 1A
Power Indicator	LED
Dimensions	80(L) x 76.2(W) x 33(D)mm

See our range of
In-Car & Cigarette
Lighter Chargers
on pages 455

▲	Current	Cat.	Qty 1+	Qty 3+	Qty 6+
	3A	MP-3671	\$29.95	\$26.90	\$23.70

4.1A Dual USB Car Charger with Micro USB Lead

Charge up to 3 USB devices as you drive with this nifty charger. It features a 2.1A USB port, 1A USB port and a 1A micro-USB plug on a 500mm lead, which can be neatly stored away when not in use by wrapping it around the blue backlit head of the device.



- Input: 12-24VDC

Limited Stock

▲		Cat.	Qty 1+	Qty 5+	Qty 10+
	2.1 + 1A + 1A	MP-3665	\$19.95	\$17.95	\$15.70

In-Car Quick Charger for Smartphones

More and more non-Apple brand Smartphones and Tablets are using the USB Micro-B socket for charging, and are also needing more current to charge at full speed. With 2.1A of charge current available, this in-car charger is your buddy in the glove box, ensuring you get a full charge into your Smartphone or Tablet on the drive to work.

A saviour when you forget to charge overnight.



SPECIFICATIONS	MB-3669
Input	12-24VDC
Output	5VDC 2.1A
Lead length	900mm with USB Micro-B connector



▲		Cat.	Qty 1+	Qty 5+	Qty 10+
	2.1A Quickcharge	MB-3669	\$14.95	\$13.35	\$11.70

5.4A Fixed USB Type-C Lead & Car Charger

This high powered USB Type-C charger will power and recharge new laptops which feature the Type-C connector. Automatically regulated, delivering up to 5.4A, for quick recharging.



Due May 2017

SPECIFICATIONS	MP-3684
Voltage Input	10-30VDC
Voltage Output	5VDC
Current Output	3A (Type-C), 2.4A (Type-A)
Lead length	1m
Dimensions	70(D) x 28(Dia.)mm



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	1 x USB Type-C	MP-3684	\$34.95	\$30.95	\$27.95

IN-CAR USB CHARGERS

3A Quick Charge™ 3.0 USB Car Cigarette Lighter Adaptor

Ultra fast charging can be a life saver when you're in a hurry. With embedded Quick Charge™ 3.0 technology you can charge up to 4-times faster than a standard charger! It will work on car and truck systems (12-24V) and provide you a single USB charging outlet. If your device doesn't support Quick Charge™ technology, it will still charge at up to 2.4A output.



SPECIFICATIONS	MP-3680
Voltage Input	10-30VDC
Voltage Output	3.6-12VDC
Current Output	3.6-6.5VDC @ 3A, 6.5-9VDC @ 2A, 9-12VDC @ 1.5A
Dimensions	51(L) x 28(Dia.)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
3A Quick Charge™ 1 x USB	MP-3680	\$19.95	\$17.95	\$15.95

3A USB A & Type-C Car Cigarette Lighter Adaptor

A USB Type-C plus USB Type-A power source for your car or truck. One port will output 5VDC up to 3A ideal for charging smartphones or tablets. Includes smart charging IC to detect optimum current for connected devices. Allows you to charge Smartphones, Tablets, MacBooks®, Google Chromebooks™ or other devices that use a USB Type-C charging port. Simply plugs into your cigarette lighter socket and away you go.



SPECIFICATIONS	MP-3670	MP-3672
Voltage Input	10-30VDC	10-30VDC
Voltage Output	5VDC	5VDC
Current Output	3A	3A Type-C (Max), 2.4A Type-A (Max), 3A Shared (Max Across 2 Ports)
Dimensions	50(L) x 28(Dia.)mm	50(L) x 28(Dia.)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
1 x USB Type-C	MP-3670	\$19.95	\$17.95	\$15.95
1 x USB Type-C, 1 x USB Type-A	MP-3672	\$29.95	\$26.95	\$23.95

2.4A Dual USB Car Cigarette Lighter Adaptor

Simply plugs into your car's cigarette lighter socket to provide a USB charging source for your USB devices as you drive. With 2 x USB sockets and a total of 2.4A combined output power making it suitable for charging two smartphones, tablets or GPS at one time.

SPECIFICATIONS	MP-3663
Voltage Input	10-30VDC
Voltage Output	5VDC
Current Output	2.4A Each Port (Max) 1.2A Each Port (Across 2 Ports) 2.4A (Total)
Dimensions	60(L) x 30(D)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
2.4A 2 x USB	MP-3663	\$9.95	\$8.95	\$7.95

See the next page for 240V USB Type Power Boards

IN-CAR POWER EXTENDERS

Cup Holder Power Extender - Dual USB Sockets

Plugs into a single cigarette power socket and provides two cigarette power sockets and two USB power sockets, while sitting neatly in your vehicle's cup holder. The input lead is a 1.6m long curly cord, keeping tangled messy cords to a minimum, and the top features LED voltage indicators to show battery condition. The twin USB output sockets are very handy as pretty much everything charges from a USB port these days, meaning you can keep the cigarette power sockets free for other car accessories like the GPS.

SPECIFICATIONS	PS-2120
Input voltage	12VDC
Output voltage	12VDC
Maximum current	10A (fused)
USB outputs	5VDC 1.0A + 0.5A (1.5A total)
Dimensions	76(Dia.) x 65(H)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	PS-2120	\$21.95	\$19.75	\$17.55

4.8A Dual USB Car Cigarette Lighter Adaptor

Plugs into your car's cigarette lighter socket to provide a USB charging source for your USB devices. The built-in smart charging IC identifies the device connected so that the optimum charging current is supplied to the Smartphone, Tablet, GPS and other USB devices.

SPECIFICATIONS	MP-3667
Voltage Input	10-30VDC
Voltage Output	5VDC
Current Output	2.4A Each Port (Max), 4.8A (Total)
Dimensions	75(L) x 28(D)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
4.8A	MP-3667	\$14.95	\$13.45	\$11.95

Car Battery Monitor with 3 x USB Sockets

Plugs into the car's cigarette lighter socket to display the car's battery voltage, and at the same time power your Smartphone, GPS and other USB powered devices via the 3 x USB ports. It is also suitable for trucks and large boats that run on 24V. You will need to provide your own USB charging lead.

- Input power: 12-24V
- Output power: 5VDC/3.1A total
- Dimensions: 60(W) x 30(H) x 28(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
3 x USB	PP-2138	\$24.95	\$22.45	\$19.95

7.2A 4 Port USB Car Cigarette Lighter Adaptor

This cigarette lighter adaptor provides 4 USB charging ports, for up to 7.2A combined charging power - that's a lot! Tablets, smartphones, and other high demand devices can then charge at their desired rate, up to 2.4A per port. Works on 12 or 24V systems, so suitable for trucks and boats too.

SPECIFICATIONS	MP-3686
Input Voltage	10-30VDC
Current Output	2.4A (Each Port Max), 1.8A (Across all Ports), 7.2A (Total)
Protection	Overload & Short Circuit
Dimensions	80(L) x 45(W)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
4 x USB	MP-3686	\$24.95	\$22.45	\$19.95

9.6A 4-Port USB Charger with Backseat Charger

Ingenious! Provides two USB charging ports up-front, and two more charging ports for the back seats. So you can charge your phone or GPS while driving, and the kids can keep their entertainment powered in the back. Each port is rated at 2.4A for fast charging of tablets and power-hungry portable devices. A 1.8m cable connects the backseat unit with the cigarette lighter front unit. Suitable for use in cars and trucks.

SPECIFICATIONS	MP-3690
Input	12-24VDC
Output	4 x 2.4A (9.6A total max.)
Cable	1.8m
Dimensions	53(W) x 79(D) x 18(H)mm (Excluding Cable and Mount)



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
4 x USB	MP-3690	\$39.95	\$35.95	\$31.95

Cup Holder Power Extender with Phone Cradle & Dual USB Sockets

This clever charging system is designed to fit in a car cup holder to dock an iPhone® or iPod® in place preventing it from moving around while driving. It also neatly stores the charging cable away in the base to prevent clutter in the car's interior. Two cigarette lighter sockets are provided as well as a USB output for use with other electronic devices. Also has a LED indicator to state the level of your battery.

- 2 x 12VDC cigarette lighter sockets
- 2 x USB outputs
- iPhone®/iPod® holder
- Twist open bottom half
- Dimension: 100(H) x 70(Dia. base) x 92(Dia. top)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	PS-2122	\$24.95	\$22.45	\$19.95

MAINS USB CHARGERS

USB Power Adaptors

A simple solution to your USB power needs in a conveniently small package. Choose between the 1.0A model to charge mobile phones, MP3 players, cameras and other small USB charged devices, or the 2.1A model that can also charge Tablets and iPads. They also feature worldwide voltage input making them great for travellers. Just connect your USB charging cable (not included) and away you go.



SPECIFICATIONS	BOTH MODELS
USB	Type A
Input voltage	100-240VAC, 50/60Hz
Output	MP-3455: 1.0A MP-3449: 2.1A
Dimensions	40(dia) x 27(L)mm

▲	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
1A	Black	MP-3455	\$14.95	\$13.35	\$11.70
2.1A	White	MP-3449	\$19.95	\$17.95	\$15.70

For our range of mains travel adaptors see page 25

3A Quick Charge™ 3.0 USB Power Adaptor

Heading out in 30-minutes and zero charge on your phone is never good! But with embedded Quick Charge™ 3.0 technology you can charge up to 4-times faster than a standard charger! Just plug it into a spare mains outlet and it will provide you a single USB charging outlet. If your device doesn't support Quick Charge™ technology, it will still charge at up to 2.4A output.



SPECIFICATIONS	MP-3443
Input Voltage	100-240VAC 50/60Hz
Voltage Output	3.6-12VDC
Current Output	3.6-6.5VDC @ 3A, 6.5-9VDC @ 2A, 9-12VDC @ 1.5A
Dimensions	43(W) x 28(H) x 70(D)mm



▲	3.0A Quick Charge®	Cat.	Qty 1+	Qty 3+	Qty 6+
		MP-3443	\$29.95	\$26.95	\$23.95

3A USB Type-C Mains Power Adaptor

Easily charge your Smartphone or tablet anywhere you go using this compact power adaptor. Plug into a mains outlet then connect your device using your USB Type-C power cable. Regardless of whether you connect a Smartphone, tablet or laptop, this adaptor will conveniently auto detect the device's ultimate charging requirements and charge accordingly. Built-in short circuit safeguard, overload protection and fully regulated output.



SPECIFICATIONS	MP-3445
Input Voltage	100-240VAC
Output Voltage	5VDC
Output Current	3A
Dimensions	57(L) x 54(W) x 28(H)mm

▲	3.0A	Type-C	Cat.	Qty 1+	Qty 3+	Qty 6+
			MP-3445	\$29.95	\$26.95	\$23.95

2 Port USB Mains Power Adaptor 2 x 2.1A - MFi

An ultra fast USB charger complete with 2 x USB sockets with 2.1A each, capable of charging virtually any mobile phone or USB device including all iPad®, iPhone® and iPod® models. Features worldwide voltage input making it great for travellers. Outputs 2100mA for each socket allowing it to charge 2 devices simultaneously. The perfect mobile device charging solution for your home and travel needs.



SPECIFICATIONS	MP-3459
Input voltage	100-240VAC, 50/60Hz
Output	5VDC, 2.1A + 2.1A (4.2A total)
Dimensions	60(W) x 60(H) x 30(D)mm



▲	2 x 2.1A	Cat.	Qty 1+	Qty 5+	Qty 10+
		MP-3459	\$24.95	\$22.35	\$19.70

2 Port USB Power Adaptor with Quick Charge™ 3.0

Charge your devices quickly and simply. This mains adaptor includes a standard 2.4A USB port as well as a port equipped with Qualcomm® Quick Charge™ 3.0 to recharge faster than ever before. The Quick Charge™ equipped port will still deliver up to 3A to a device not equipped with Quick Charge technology too.



NEW
2017



Due June 2017.

Note: Product may vary to one shown.



SPECIFICATIONS	MP-3437
Input	100-240VAC @ 0.7A Max
USB Outputs	Quick Charge™ 3.0: 3.6-6.5V @ 3A; 6.5-9V @ 2A; 9-12V @ 1.5A, Standard: 5V @ 2.4A Max
Weight	82g
Dimensions	55(W) x 83(D) x 40(H)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	MP-3437	\$39.95	\$35.95	\$31.95

4 Port USB Power Adaptor

This slimline 4.8 amp mains power adaptor allows you to charge four USB devices from one power socket, conveniently freeing up other power sockets for use. Just plug the adaptor into a standard AC power socket and connect the charging cables of your devices to the four USB ports. Great for homes or offices that are short on power sockets and big on power hungry devices.



SPECIFICATIONS	MP-3446
Voltage Input	100-240VAC
Voltage Output	5VDC
Current Output	2.4A Each Port (Max.), 1.2A Each Port (Across 4 ports) 4.8A (Total)
Dimensions	105(H) x 40(W) x 35(D)mm

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
4 Port	MP-3446	\$29.95	\$26.95	\$23.95

4 Port USB Power Travel Adaptor

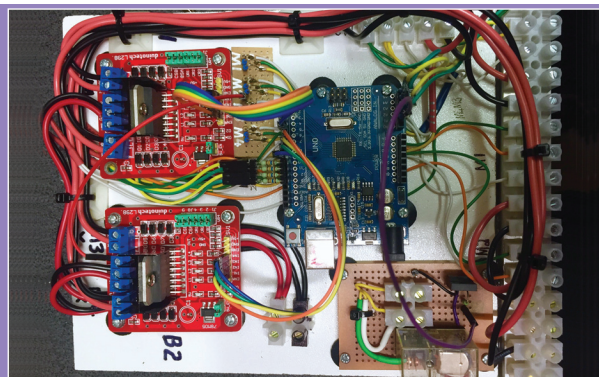
Power and charge your USB powered devices internationally - perfect for all international travellers.



NEW
2017

It features Extreme charging 5 Amp (total) across 4 x USB power outlets. Compatible with Australian, European, UK and USA style mains outlets.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	MP-3441	\$34.95	\$31.45	\$27.95



SHOW US YOUR BUILD COMPETITION

Capalaba, who shops at our Jaycar store built:

This Arduino controlled CNC machine was hand built following a plan from the Internet. All the encoders, stepper drives, discrete power components (Mosfets, relays and terminators) were sourced from Jaycar Capalaba. It ran successfully first time.

MAINS USB CHARGERS - WITH LEADS

2.4A Wall Charger with Lightning® Lead for iPad®, iPhone®, iPod® - MFi

Never have charging compatibility issues with your Apple® device with Lightning® connector again. This 12W (2.4A) mains wall charger is licensed under the Apple® MFi program (made for iPad®, iPhone®, iPod®), so it is fully compatible with all Apple® devices with a Lightning® connector, even taking into consideration any future iOS® updates and future model releases. The main charger has a single USB output socket, and is supplied with a 1m Lightning® charge and sync lead which you can also use to sync your device to your home computer.



SPECIFICATIONS MP-3547

Input 110-240VAC, 50/60Hz
Output 5VDC 2.4A
Lead length 1m

Made for
iPod iPhone iPad



	Cat.	Qty 1+	Qty 5+	Qty 10+
2.4A	MP-3547	\$34.95	\$31.45	\$27.90

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

Mains Chargers with USB Output for Smartphones & Tablets

A range of mains chargers with a USB output port to charge a variety of devices. Great as replacements or as a back-up. Each comes supplied with a 1m USB charge and sync lead to suit your specified device.

FOR SMARTPHONES WITH USB 2.0 MICRO B - 1.0A - MP-3544



FOR SMARTPHONES/TABLETS WITH USB 3.0 MICRO B - 2.1A - MP-3546

	Cat.	Qty 1+	Qty 5+	Qty 10+
USB 2.0 Micro B - 1.0A	MP-3544	\$17.95	\$15.95	\$14.35
USB 3.0 Micro B - 2.1A	MP-3546	\$19.95		

Mains Power Adaptor for iPad®/iPhone®/iPod®

Mains power adaptor suitable for charging Apple® products including iPad®

- 30 pin connector
- Includes 1m USB charging/sync cable
- Input: 240VAC 50Hz
- Output: 5VDC, 2.1A *Limited Stock*



	Cat.	Qty 1+	Qty 5+	Qty 10+
2.1A	MP-3457	\$19.95	\$17.70	\$15.70

DESKTOP USB CHARGERS

4 Port USB Powerboard

With more and more devices requiring USB for charging, it's no wonder you can never find a spare port to charge something. Now you can get 4 USB ports straight from your power point! Up to 2,000mA total charging current can be shared between the 4 ports. Features a LED indicator, over current and short circuit protection. Includes a mains power adaptor.



SPECIFICATIONS MS-4067

Voltage Input 12VDC
Voltage Output 5VDC
Current Output 500mA Each Port (Max) 2A (Total)
Dimensions 120(L) x 31(W) x 22(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
4 Port	MS-4067	\$24.95	\$22.45	\$19.95

5 Port USB Desktop Charger

Charging and powering your USB devices has never been simpler. Connect this unit to mains power, and you have 5 charging ports! A maximum combined 8A charging current means you can quickly charge your Tablets or Smartphones, while leaving other devices charging too. The integrated stand allows it to lay flat, or stand upright on your desk.



SPECIFICATIONS MP-3439

Voltage Input 100/240VAC
Voltage Output 5VDC
Current Output 2.4A Each Port (Max.)
1.6A Each Port (Across 5 Ports)
8A (Total)
Dimensions 117(W) x 28(H) x 77(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
5 Port	MP-3439	\$49.95	\$44.95	\$39.95

6 Port USB Powerboard

Charges up to 6 USB devices at a time and features a smart charging IC, which identifies the USB device connected and delivers the most suitable current for that device. It is compatible with numerous digital devices such as the most popular brands of MP3/MP4 players, portable gaming devices, digital cameras, Tablets, and Smartphones, including iPad®, iPhone®, and iPod® and Samsung®.

- Mains powered
- Power LED indicator

Note: Accessories not included

SPECIFICATIONS MS-4068

Current Output 6.8A (Max)
2 x 2.4A ports, 2 x 1A ports
or 4 x 1.2A ports, 2 x 1A
Dimensions 190(L) x 40(W) x 32(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
6 Port	MS-4068	\$39.95	\$35.90	\$31.90

5 Port USB Charging Station with Storage Compartment

This USB charging station allows you to position up to 5 tablets or smartphones side by side on top of the unit while charging. Place your cables inside the storage compartment while charging to avoid messy cables lying around. Multiple dividers can be easily positioned in one of the slots to accommodate for a variety of devices. It boasts a maximum power output of 2.4A per port, so even power hungry iPads® can be charged. Perfect for the office or typical household kitchen bench or bedside table. Includes 6 dividers and a 12VDC, 4A power supply.



SPECIFICATIONS WC-7766

USB Current Output 2.4A Each Port (Max),
1.64A Each Port (Across 5 Ports),
8.2A (Total)
Power Output 41W
Power Supply 12VDC, 4A
Dimensions 165(L) x 120(W) x 62(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
5 Port	WC-7766	\$69.95	\$62.95	\$55.95

10 Port USB Charging Station

This USB charging station with its innovative design allows space for up to 10 tablets or Smartphones to be positioned side by side on top of the unit while charging. Multiple dividers can be easily positioned in one of the slots to accommodate for a variety of devices. It boasts a maximum power output of 2.4A per port, so even power hungry iPads® can be charged. Perfect for restaurants or retail shops who use tablets for ordering, schools and even the household with lots of devices. Includes 11 dividers and a 12VDC, 8A power supply.



Note: Tablet, phones & cables not included

SPECIFICATIONS WC-7768

USB Current Output 2.4A Each Port (Max.)
1.5A Each Port (Across 10 Ports)
15A (Total)
Power Output 96W
Power Supply 12VDC, 8A
Dimensions 238(L) x 133(W) x 25(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
10 Port	WC-7768	\$119.00	\$106.95	\$94.95

USB POWER BOOSTERS

2.1A USB Port Power Booster

A small device that plugs into the USB port of your computer to provide a faster charge to a Smartphone or Tablet. Without this device, a standard computer USB port will only slow charge a Smartphone and in many cases not charge a Tablet at all. The intelligent circuitry within this booster detects the device connected and automatically switches to the full speed charging mode up to 2.1A.

- Compatible with all Smartphones and Tablets
- Supports PC and Mac®
- Input voltage: 5V
- Output current: Up to 2.1A
- Dimensions: 45(L) x 18(W) x 11(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5700	\$9.95	\$8.75	\$7.75

ATTENTION! Have another look at these USB Power Boosters. They are seriously handy!

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

CHARGING HUB

4-in-1 Magnetic Charging Hub

An extremely convenient and attractive mains charger for your Smartphone or MP3 player. Comes with a variety of cables that magnetically connect to the charging hub to give more juice to your device.

- Sleek and compact, just sit it under your computer monitor and start charging!
- Over current/voltage protection



Note: iPhone® not included

SPECIFICATIONS				
MB-3651				
Includes		30 pin iPhone® connector, Mini USB, Micro-B USB & Nokia connector		
Output current		800mA		
Output voltage		5V		
Dimensions		80(Dia.) x 15(H)mm		



▲	Cat.	Qty 1+
800mA	MB-3651	\$29.95

Power Boosting Lead for iPhone®/iPad®/iPod® - MFi

Typically computer USB ports don't generate enough power to reliably charge some of your Apple® devices. Using this cable you can enhance the power of your iPhone®, iPad®, or iPod® with a maximum charging current of 2.4A. Guaranteed compatibility with all iPod®, iPhone® or iPad® with Lightning® connectors.

- Current Output: up to 2.4A



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	WC-7741	\$29.95	\$26.95	\$23.70

Power Boosting USB A to USB Micro B Lead

Computer USB ports really don't produce enough power to reliably charge your Android and Windows Smartphones or Tablets. This cable overcomes that problem, allowing you to charge your device up to 2.4A. Supports all Smartphones and Tablets with a USB Micro-B connection.

- Current Output: up to 2.4A



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
1.8m	WC-7743	\$19.95	\$17.95	\$15.70

USB SOCKET SAVER

Micro USB Socket Saver Leads - Pair

Many of us on the Jaycar staff have found that using a USB socket (either standard or USB micro B, etc.) very frequently actually wears the connector out and it becomes unreliable. To reduce this problem, we have introduced a micro USB lead that should remain plugged into the USB device to save wear on the inlet socket. Yes, this means that you will have to put up with the inconvenience of a small lead sticking out of the device but it saves the product from becoming unusable. You can, of course lay the lead down with double-sided tape if you like to create a neater result.

- Micro USB
- 100mm long
- Sold as a pair



Product may vary from the one shown

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
100mm	WC-7756	\$9.95	\$8.95	\$7.75

MAINS ADAPTORS WITH USB PORTS

240V GPO Wall Socket with 4 x USB 3.15A Output

This hardwired USB adaptor will fit into a standard GPO wall plate base and give 4 USB power sockets with a total of 3.1 amps. Use it to power or charge pretty much anything that takes power from a USB socket.

- Instructions are included, however, all fixed wiring products must be installed by a licensed electrician!



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
4 Ports	PS-4071	\$24.95	\$22.45	\$19.95

Clip Over Wall Plate with 2 USB Ports

A clip over wall plate adaptor that can be easily fixed to an existing power outlet without opening and rewiring which adds 2 x USB ports. The 2 x USB outlets can charge and power your USB devices up to 3.1A in total. Using these two USB ports, you can turn any wall outlet into a mobile device charging station. Embedded with surge protection and switchable light sensor night light. It suits to widely used wall plates such as Clipsal®, HPM®, etc. Perfect for the kitchen, bathroom, or garage.



Due May 2017

SPECIFICATIONS	
Input Voltage	230-240VAC
Input Current	10A (Max)
Power Rating	2400W (Max)
USB Output Voltage	5VDC
USB Output Current	2.4A Each Port (Max) 3.1A Shared (Across 2 Ports)
Dimensions	138(L) x 98(W) x 54(D)mm (Excluding Pins)

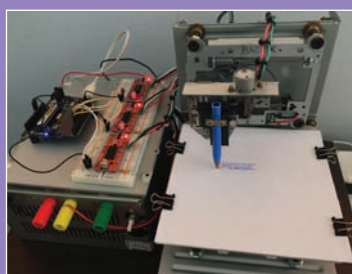


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Double + 2 USB	MS-4009	\$39.95	\$35.90	\$31.90

SHOW US YOUR BUILD COMPETITION

Christian, who shops at our Jaycar Penrith store built:

I built a Draw bot using an Arduino, 2 recycled DVD drives a 3.5 inch floppy and an ATX power supply using parts from Jaycar. The Draw bot uses Gcode to drive the stepper motors and draw pictures.



GIFT CARD

Can't find what to buy? Give a Jaycar Gift card and let them choose!



POWER BANKS

AA Emergency Phone Charger - Micro USB

Never get caught in an emergency without a phone charger again! This device takes two standard AA batteries to provide a Micro USB charging outlet. It may not fully charge your phone, but it'll get an average Android phone (with a 2,500mAh battery) to 40% in around half an hour. AA alkaline batteries have a long shelf life, so provide an excellent backup solution. It uses a clever DC-DC converter to increase the AA battery voltage and make it suitable for charging.

Batteries not included

SPECIFICATIONS	MB-3661
Batteries	Requires 2 x AA
Input Voltage	3VDC
Output Voltage	5VDC
Output Current	500mA-1,500mA
Output Plug	Micro USB
Dimensions	17(W) x 17(D) x 17(H)mm

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
500mAh-1,500mAh	MB-3661	\$17.95	\$15.95	\$13.95

iPhone® Battery Backup Module

This compact unit provides emergency power for your iPhone 5® and similar products. It is fitted with a Lightning® connector for your phone and a USB plug for the module to be recharged itself. This product will give you, on average, another 8 hours of use (depending on application.)

- Compact 73(L) x 69(W) x 10(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
1,500mAh	MB-3605	\$19.95	\$17.95	\$15.95

Power Bank with Removable 18650 Li-ion Batteries

Supplied with removable Samsung® 18650 Li-ion batteries, which provide high performance for their compact size, and can be easily swapped out for higher capacity cells over time. Charge the power bank using the supplied Micro B USB lead. 1A output to charge your Smartphone, iPhone®, iPod®, and other digital products.

- Compatible with all 18650 lithium-ion batteries
- Support hot plug-and-play
- LEDs to indicate charging, discharging and power status
- Li-Battery Protection IC
- MCU monitoring protection

SPECIFICATIONS	MB-3717
Recharging cut off voltage	4.2V-4.25V smart identification
Discharging cut off voltage	3V
Input	5V/1A (Micro USB)
Output	5V/1A (USB)
Dimensions	99(L) x 24(Dia.)mm

▲	Cat.	Qty 1+	Qty 10+	Qty 20+
2,600mAh	MB-3717	\$29.95	\$26.95	\$23.95

Power Bank USB Mains Power Adaptor

Our 2-in-1 power bank combines a wall charger and portable power bank into one convenient device. Features a detachable plug for you to carry the slim power bank more conveniently. If this 2000mAh 2-in-1 Power Bank ever runs out of juice, you can simply plug the 240v plug directly into a power outlet. Features an LED indicator and pass-through charging technology, you can even charge the power bank and your device simultaneously.

SPECIFICATIONS	MP-3438
Input	100-240VAC
Output	5VDC, 1A
Battery Capacity	2000mAh
USB Socket	Type-A
Dimensions	76(L) x 36(W) x 27(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
2,000mAh	MP-3438	\$39.95	\$35.90	\$31.90

Portable Rechargeable Power Banks

Compact and portable charger designed to charge your Smartphones and Tablets on the go. It comes with built-in USB and micro USB cables to suit most devices, and two built-in USB ports to charge other Smartphones via their original charging cable. Charge the power bank using the built-in USB cable from your PC or using a power adaptor (available separately).

They have LED indicators to show you the battery status.



SPECIFICATIONS	MB-3724	MB-3726
Battery type	Lithium polymer	Lithium polymer
Capacity	3.7V/5,000mAh	3.7V/10,200mAh
USB cable input	5V/1A	5V/1.3A
Output	USB port1: 5V/2.1A, USB port 2: 5V/1A	USB port1: 5V/2.4A, USB port 2: 5V/1A
Micro USB cable	5V/1A	-
Self charging time	12hrs (by laptop), 7hrs (by 5V/1A travel charger)	22hrs (by laptop), 10hrs (by 5V/2.1A travel charger)
Power display	5 LED indicators	4 LED indicators
Dimensions	108(L) x 64(W) x 16.5(D)mm, 140g	133(L) x 66(W) x 17.5(D)mm, 225g

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
5,000mAh	MB-3724	\$49.95	\$44.90	\$39.90
10,200mAh	MB-3726	\$69.95	\$62.95	\$55.95

Waterproof 10,400mAh Portable Rechargeable Power Bank

A double moulded housing ensures the battery bank is dust free and waterproof. It also features two USB ports; a 2.1A port to charge your power thirsty Tablet and a 1.0A port to charge your phone and other devices. The Battery Bank has low self-discharge protection to prevent the internal batteries from dying out prematurely. A micro B USB lead is included and 4 blue LEDs indicate when charging is required.

- IP67 rated, waterproof dustproof also shockproof
- Energy-saving with auto-off function and low self-discharge
- Over-charge, over-discharge, over-current, short-circuit, and over-heat protection

SPECIFICATIONS	MB-3728
Battery type	Li-ion
Capacity	10,400mAh
Input / Dual Output	5V/2A / 5V/3.1A combined
Charging time	5.5 hours
Compatibility	Smartphones, Tablets and devices powered by DC 5V input
Dimensions	145(L) x 75(W) x 25(D)mm

▲	Cat.	Qty 1+	Qty 10+	Qty 20+
10,400mAh	MB-3728	\$109.00	\$97.95	\$86.95

6,000mAh Laptop Power Bank

USB power banks and jump starters for your car are common, but now there's a similar option for your laptop! This power bank not only includes a multi-function USB port, it has 10 common laptop power plugs to keep you going. It can provide 12/16/19V outputs at up to 3.5A.

An LCD keeps you informed of the battery status at all times.

Recharged anytime via another available USB power source.

SPECIFICATIONS	MB-3719
Charging Input	5VDC @ 1A
USB Output	5VDC @ 2.4A
Laptop Output	12/16/19VDC @ 3.5A
Capacity	6,600mAh
Battery	Lithium-ion
Charging Time	6-7hrs
Weight	190g
Dimensions	138(W) x 49(D) x 20(H)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
6,000mAh Laptop Power Bank	MB-3719	\$89.95	\$80.95	\$71.95

ADDICTED TO SOCIAL? WE'RE HERE TO CHAT - WHATEVER YOUR CHANNEL!



instagram.com/jaycar_electronics
facebook.com/jaycarelectronics



youtube.com/user/JaycarVideo

twitter.com/jaycarau



POWER BANKS (CONTINUED)

10,400mAh Qualcomm® Quick Charge™ 3.0 Power Bank

When you're on the move and doubtful of your access to a secure and reliable power source, this portable power bank with Qualcomm® Quick Charge™ 3.0 is definitely worth packing! The Qualcomm® Quick Charge™ 3.0 technology efficiently charges your compatible device up to 75% faster than standard chargers and is 38% more efficient than Qualcomm® Quick Charge™ 2.0. Four LEDs indicate the strength of the bank's battery and device charging status. Fully recharge the battery in approximately 3.5 hours by using a Qualcomm® Quick Charge™ mains power adaptor or up to 8 hours by a standard USB cable to a PC or USB mains charger. The power bank will also shut down automatically after 4 seconds of inactivity to ensure the battery isn't wasted. The power bank also features short-circuit and overload protection.

Works best with Android smartphones and tablets equipped with Qualcomm® Quick Charge™ technology. Please note that you can still charge devices not equipped with Qualcomm® Quick Charge™ technology at their full standard charge rate up to 3A.

SPECIFICATIONS MB-3729

Input	USB 2.0 Micro B
Output	USB 2.0 Type-A
Voltage Input	5/9/12VDC
Current Input	5VDC @ 2A
	9VDC @ 2A
	12VDC @ 1.5A
Voltage Output	5-12VDC
Current Output	5V-6.5V @ 3A
	6.5V-9V @ 2A
	9V-12V @ 1.5A
Battery Capacity	10,400mAh
Battery Type	3.7V Li-Ion Samsung®
Charging Time	Up to 3.5hrs @ QC 2.0, 4hrs @ 2A, 8hrs @ 1A
Dimensions	102(L) x 77(W) x 22(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
10,400mAh	MB-3729	\$79.95	\$71.95	\$63.95

4,000mAh Solar Rechargeable Power Bank

This portable battery bank and solar charger uses a high-performance polymer Li-ion battery with a capacity of 4,000mAh to suit your power hungry devices. Plug the Micro B USB end of the enclosed cable into your device to supply power and recharge. Alternatively turn the cable around to recharge the unit after use from an alternative power source. The LED indicator on the front of the charger tells you when you'll need to recharge the internal battery. To recharge either use the USB power adaptor (fully recharge in 4 hours) or harness the power of the sun (fully recharge in 25-27 hours depending on sun light conditions). The perfect power solution for when you're on the go and can't access an AC power outlet.



SPECIFICATIONS MB-3723

Input	USB 2.0 Micro B
Output	USB 2.0 Type A
Voltage Input	5VDC
Current Input	1A
Voltage Output	5VDC
Current Output	2.1A
Battery Capacity	4,000mAh
Battery Type	3.7V, Li-ion
Solar Panel	Polycrystalline 7.2V, 1W
USB Charging Time	4hrs
Solar Charging Time	25-27hrs
Dimensions	155(L) x 70(W) x 15(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
4,000mAh	MB-3723	\$64.95	\$58.50	\$51.95

BATTERY BANK - SMARTPHONE CASE

Adjustable Smartphone Case with Battery Back-Up

Extend the battery life on your Smartphone so you can talk, message, browse the web, and play games for many more hours compared to just the phone's battery. Simply fit your Smartphone into the universal case and it will provide up to 180 hours of standby time. The case adjusts from 120 to 160mm to fit most sized phones. The case does not interfere with the camera or headphone output on most models.

SUITS IPHONE® WITH LIGHTNING® PLUG

- Compatible with iPhone® 5, iPhone® 5S, iPhone® 6, iPhone® 6 Plus
- Licensed under the Apple® MFi program to ensure future iOS® or model releases Cat. MB-3696

SUITS SMARTPHONE WITH USB MICRO B PLUG

- Compatible with Samsung® Galaxy S Series* and Note Series, LG®G2/G3, Nokia®, and other Smartphone brands
- * Excluding Samsung® Galaxy S5 model
- Cat. MB-3698

NOTE: MB-3698 does not suit Smartphones with reversed Micro B USB socket configuration or sockets not situated on the side.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Lightning® Plug	MB-3696	\$54.95	\$49.45	\$43.95
USB Micro B Plug	MB-3698	\$49.95	\$44.95	\$39.95

10,000mAh Dual USB Power Bank with Quick Charge™ 3.0 & Type-C

The ultimate in modern power bank convenience. A huge 10,000mAh Li-Po battery supports powering and recharging your devices. One port is equipped with the latest Qualcomm Quick Charge™ 3.0 technology to charge your devices faster than ever before! Recharge the unit via USB Type-C or Micro USB (standard USB adaptors included).



Due July 2017

SPECIFICATIONS MB-3725

Recharging Input	5VDC @ 3A Max (Micro USB or USB Type-C)
USB Outputs:	Quick Charge 3.0 Port: 3.6-6.5V @ 3A; 6.5-9V @ 2A; 9-12V @ 1.5A, Standard Port: 5V @ 2.4A Max
Battery	3.7V 10,000mAh Lithium Polymer
Weight	234g
Dimensions	75(W) x 151(D) x 15(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
10,000mAh	MB-3725	\$89.95	\$80.95	\$71.95

6,000mAh Solar Mobile Recharge Power Bank

Foldable pocket size solar panel with a built-in lithium battery charges your gadgets anywhere. You can either charge your device via exposing this product to sunlight or by connecting it to a power socket in your car or home. By using this product you can recharge a range of mobile phones, PDA's, MP3 players or digital cameras. Compact and convenient design featuring two USB sockets to charge USB compatible devices. Ideal companion for camping and/or travelling!

- Built-in USB charge and output cables
- LCD power display with foldable dual solar panel
- Rugged and strong design with anti-slip rubber paint finish



SPECIFICATIONS MB-3720

Battery type	Lithium polymer
High efficiency solar panel	5.5V/620mA
Capacity	3.7V/6,000mAh
USB cable input	5V/1A
Output	USB port 1: 5V/2.1A, USB port 2: 5V/1A, Micro USB cable: 5V/1A
Self charging time	12 hours (by laptop), 7 hours (by 5V/1A travel charger), 10-12 hours (via solar panel, under full sunlight condition)
Power display	LCD
Dimensions	152(L) x 92(W) x 20(D)mm, 295g



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
6,000mAh	MB-3720	\$119.00	\$106.95	\$94.95

BUY IT ON THE WEB...

Shop for all these Jaycar Electronics products on our website - and check out our latest products and special offers!



Note: Smartphone not included

SPECIFICATIONS BOTH MODELS

Battery	3000mAh Li-polymer (Built-in)
Slim design	
Charging time	4 hours (based on 1A input)
Standby time	180 hours (approx)
Dimensions	135(L) x 59(W) x 18(D)mm



SMARTPHONE LEADS & ADAPTORS

USB A to USB Micro B Lead



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
500mm	WC-7723	\$5.95	\$5.25	\$4.75
1.8m	WC-7724	\$9.95	\$8.75	\$7.75

USB Charge/Sync Lead for iPad®/iPhone®/iPod®

Suitable for Apple® iPhone®, iPod® and iPad® with 30-pin Apple® connector.



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm	WC-7689	\$4.95	\$4.45	\$3.90
1m	WC-7693	\$7.95	\$6.95	\$6.25
3m	WC-7688	\$9.95	\$8.75	\$7.75

Sync/Charge Lead for Galaxy Tab®

Sync/charge lead to suit Samsung Galaxy Tab.

• Length: 1m



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	WC-7680	\$9.95	\$8.75	\$7.75

Universal USB Phone Cable with 6 Plugs

Perfect for universal charging of smart devices, when you have all sorts of different makes and models. Includes a 1m universal cable with 6 different plugs to interchange as needed. Charges popular Smartphones, mobile phones and iPhone®/iPod®, as well as some PDAs and MP3 players.



Due May 2017

Product may vary to one shown

▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	WC-7751	\$14.95	\$13.45	\$11.95

USB Charge & Sync Lead to suit Lightning® Plug

Suitable for the New Generation of Apple® devices. A Lightning® connector lead for charge or data sync with units such as iPhone 5® and iPad mini® to any USB port.



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	WC-7728	\$14.95	\$13.45	\$11.95

Lightning® Plug to USB Adaptor Cable - MFi Approved

Charge or sync your Lightning® socket equipped iPhone® 5, iPad®, or other Apple® device with this MFi approved Lightning® plug to USB adaptor. MFi approval means you will get maximum compatibility and reliability as it is officially approved by Apple®.

Made for

iPod iPhone iPad



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	WC-7731	\$19.95	\$17.95	\$15.95
3m	WC-7733	\$34.95	\$31.45	\$27.95

Lightning® Plug to 30 Pin Apple® Socket Adaptor

A compact adaptor suitable for connecting an iPhone®, iPad® or iPod® using the Lightning™ connector to peripherals that use the older 30-pin connector, such as chargers and docks.

Note: This Adaptor is intended for charging and syncing only.



▲ Adaptor Lead	Cat.	Qty 1+	Qty 3+	Qty 6+
WC-7726	\$9.95	\$8.95	\$7.95	
WC-7727	\$8.95	\$8.05	\$7.15	

Armoured USB Leads

If you have a habit of "killing" your USB charging cables, fear no more. These leads come with stainless steel armour to resist breakage from even the most determined (or clumsy) users. The WC-7754 Lightning® lead is officially MFi approved by Apple®.

• Cable Length: 1m

Close up of steel armour

Due July 2017

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0 to Micro B	WC-7753	\$19.95	\$17.95	\$15.95
USB 2.0 to Lightning™	WC-7754	\$29.95	\$26.95	\$23.95
USB 2.0 to Type-C	WC-7755	\$29.95	\$26.95	\$23.95

See page 363 for Power Boost Cables

Type-C Leads

A new range of leads - all with Type-C males to various USB connectors.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Type-C to USB 2.0 A Male Lead 1.8m	WC-7900	\$19.95	\$17.95	\$15.95
Type-C to USB 3.0 A Male Lead 1m	WC-7910	\$24.95	\$22.45	\$19.95
Type-C to USB 2.0 Type-C Lead 1m	WC-7920	\$29.95	\$26.95	\$23.95

3.5mm 4 Pole Socket to 2 x 3.5mm Plug Lead

Allows you to connect headphones or earphones with in-built microphone to a laptop or desktop with audio and microphone inputs.



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
250mm	WA-7022	\$6.95	\$6.25	\$5.50

3.5mm 4 Pole Plug to 2 x 3.5mm Socket Lead

Allows you to connect a separate microphone and stereo headphones or earphones to a Smartphone instead of using a combined earphone with built-in mic.



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
250mm	WA-7020	\$6.95	\$6.25	\$5.50

USB2.0 to 3.5mm Audio Converter

This handy device provides an additional (or replacement) audio interface for your computer. It connects to a spare USB port and provides a microphone input, and stereo headphone output - ideal for use with headsets. You don't have to use both interfaces, you can simply use it as a microphone input, or to connect headphones to a computer without a soundcard. Plug and play, compatible with PC and Mac® systems.

Due May 2017

SPECIFICATIONS	XC-4953
Digital Interface	USB2.0
Analogue Interface	3.5mm Stereo Audio Output (Headphones), 3.5mm Audio Input (Mic)
Dimensions	27(W) x 45(D) x 12(H)mm (Excluding Cable and USB Plug)
Cable Length	170mm

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
170mm	Type-A	XC-4953	\$24.95	\$22.45
			\$19.95	

USB Type-C to 3.5mm Audio Converter

This USB Type-C converter will provide you with stereo audio output, and a microphone input. Plug and play with no drivers required, suitable for Windows and Mac® hardware.

Due May 2017

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
170mm	Type-C	XC-4955	\$29.95	\$26.95
			\$23.95	

ON-THE-GO

This is a specification which enables users to connect a standard USB input device, such as a computer mouse, keyboard, and sometimes a USB thumb drive to USB devices such as Smartphones.

USB 2.0 OTG FEMALE A PLUG TO RIGHT-ANGLE MICRO MALE B PLUG


WC-7725

USB A SOCKET TO SAMSUNG® OTG ADAPTOR


WC-7747

USB TYPE-C TO USB 3.0 A SOCKET ADAPTOR


WC-7909

▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
150mm	WC-7725	\$4.95	\$4.45	\$3.95
220mm	WC-7747	\$4.95	\$4.45	\$3.95
150mm NEW	WC-7909	\$14.95	\$13.45	\$11.95

Android OTG Hub & Card Reader Dock

This OTG Dock for Smartphone and tablets provides a convenient way to access expanded storage on your Android device. The device connects to your Android phone or tablet using the attached Micro B USB cable, opening up access to the 3 onboard USB ports and SD card slot.

Now you can connect full-sized SD cards from a camera, USB flash drives or even a portable USB harddrive full of movies or music. This presents an array of potential uses whether for backing up, transferring, editing, sending your photos or simply enjoying some entertainment either at home or on the go. Allows you to connect a mouse and keyboard to the USB ports and your Android device becomes a full mobile office. Includes a USB Micro-B cable for charging your device.


SPECIFICATIONS WC-7765

Interface	USB 2.0
Inputs	3 x USB 2.0 ports, 1 x SD slot
SD Storage	up to 32GB SDHC / 64GB SDXC
Dimensions	95(L) x 95(W) x 18(H)mm

Smartphone, keyboard & mouse not included

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	WC-7765	\$24.95	\$22.45	\$19.95

SMARTPHONE/TABLET VIDEO CONVERTERS

MHL to HDMI Converter with 11 Pin Samsung® Adaptor

Mobile High-Definition Link (MHL) is a new feature built into popular Smartphone and Tablet devices, which enables full HD 1080p video output from the Micro-B USB port. Connect this MHL to HDMI Converter to your HDTV (HDMI cable not included) to view full 1080p video at 30/60Hz or mirror everything on and from your MHL equipped device. Supplied with an 11 Pin Micro-B Adaptor for use on Samsung® S3/4 or Note 2. The converter requires USB power (power cable not included) which can connect to a USB power adaptor or from a USB port on an HDTV.

- Supports resolutions up to 1080p @ 30/60Hz
- Supports device mirroring
- Supports most Android Smartphones & Tablets
- Lead Length: 90(L)mm
- Dimensions: 53(L) x 28(W) x 11(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	WQ-7424	\$24.95	\$22.45	\$19.95

Micro HDMI Plug to HDMI Socket Adaptor

Connects your Smartphone, camera or other device with micro HDMI socket to any TV with a HDMI connection.

- Colour: Black
- Gold plated connectors



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-3649	\$9.95	\$8.75	\$7.75



For more HDMI adaptors see page 73

Wi-Fi HDMI Miracast Dongle - V2.0

Plug the Anycast dongle into your TVs HDMI port and begin streaming content from your smartphone, tablet or PC to your TV. It features a self-explanatory screen mirroring function as well as DLNA and Airplay® for an almost universal ability to stream media from a compatible device. Through the casting functionality, play YouTube, videos, pictures and an innumerable number of other streaming services straight on your TV. A great solution for those without smart TVs.

- Compatible with iOS®, Android & Windows/Mac®
- Free AllConnect or iMediaShare app from iTunes® or Google Play
- Stream or Mirror video and audio to any TV with HDMI
- Powered via USB Micro-B port

SPECIFICATIONS		AR-1922		
Memory		128MB DDR3		
Wi-Fi		802.11 b/g/n		
Resolution		1080p, 720p		
Media Sharing		Miracast, DLNA, Airplay® & Airmirror®		
Supported Operating System		Android 4.2+, iOS® 7.0 +, Windows, Mac OS® X		
Dimensions		57(L) x 36(W) x 12(H)mm		



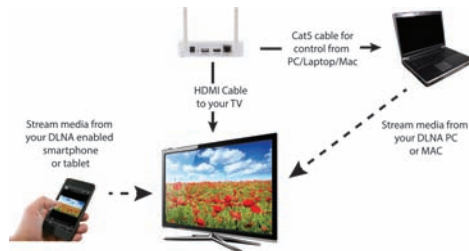
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1922	\$54.95	\$49.45	\$43.95

HDMI Display Receiver

Turn your HDTV into a Smart TV! This clever device allows you to stream videos, music and photos wirelessly from your computer or DLNA enabled Android Smartphone or Tablet. Connect using HDMI to your TV and access and control media, including browsing the Internet on your Windows or Mac® using a USB mouse and/or keyboard (available

separately). It also smartly doubles as a Wi-Fi router, just connect it to your current router and you'll be able to access the internet on Wi-Fi enabled laptops or Smartphones. Supplied with software and power adaptor. HDMI cable available separately.

- Requires 802.11n capable Windows/Mac® PC for optimal wireless performance
- DLNA Supported media
Video: AVI, ASF, WMV, MKV, MP4, MOV, 3GP, TS, RM, FLV, MPG
Audio: LPCM, MP3, AAC, WMA
Image: JPEG, PNG
- Dimensions: 130(L) x 64(D) x 20(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	AR-1914	\$149.00	\$133.95	\$118.95

SMARTPHONE ACCESSORIES

KlikR® Smartphone Controlled IR Remote Module

KlikR® is a small Bluetooth® product that can be stuck onto or right next to any infrared remote controlled electronic product, making it almost instantly controllable from your Android or iPhone®. The KlikR® mobile application - Klikmext® - allows you to organize all of your devices in your home, room by room. Using the app, you can then navigate through your remote controls in each room by swiping or by selecting from a horizontal list. If you want your family or friends to use KlikR®, there's no need for them to set it up again. Simply share your setup with a QR code from the application's home screen. Furthermore, all your setup and devices are backed up on the cloud in case you lose or change your phone.

Finally, KlikR® is more than a universal remote. KlikR® comes equipped with voice control so you can give commands directly to your smartphone. For example you can instruct the app to "Turn on the TV" or "Change the channel". KlikR® also has optional smart pausing and muting in case you get a phone call while you are watching a movie.

• Dimensions: 30 x 30 x 10mm (approx.)



Bluetooth®

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1956	\$49.95	\$44.95	\$39.95

Selfie Stick with Bluetooth® Control

Just attach your Apple® or Android® Smartphone to this selfie pole and let the fun begin. Features Bluetooth® wireless technology to take photos and videos without the need to tap your phone. Simply pair the selfie pole with your phone and press the button on the grip. When the action is over, show off your artistry on Facebook®, Twitter®, Instagram® or YouTube®.

- Rechargeable battery
- Compatible with Apple® and Android® Smartphones
- Bluetooth® photo/video capture button
- Includes 2 brackets for 3.5-5.5" Smartphones

Bluetooth®

SPECIFICATIONS	QC-8068
Running time	up to 10 hours
Charging time	1 hour
Supports	iOS®4.0+, Android® 3.0+
Dimensions	Extends from 235 to 1015mm

▲	Cat.	Qty 1+	Qty 4+
	QC-8068	\$24.95	\$22.45



NEW LOW PRICE

Remote Button

iPhone® not included

Portable Fan For Phones

Create that "hair in the wind look" the next time you take a selfie with this USB powered portable fan.

Of course, it is also suitable for cooling yourself on a hot day!



NEW 2017

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1292	\$7.95	\$7.15	\$6.35

TRACKING DEVICES FOR iPhone®

Protective Case with Wireless Alert Keying to suit iPhone 4®

Never leave your iPhone® behind again. Hidden within the lightweight protective case is a wireless transmitter that pairs with the small receiver that clips onto your keys or a belt loop on your pants. When the iPhone® and receiver become 2m apart the receiver will beep to alert you that you have left your iPhone® behind, or that someone may be stealing it. The protective case has a soft touch finish and features a slim retractable bracket to hold the iPhone® in a portrait or landscape position on a table. A USB charging cable is supplied to charge the case and keyring which operate for up to 58 hours on a full charge.

- Suits iPhone 4® & iPhone 4s®
- Alarm: 95dB
- Frequency: 2.4GHz
- Rolling code encryption
- Dimensions: Case: 117(H) x 60(W) x 14(D)mm
Keyring alarm: 60(H) x 24(W) x 14(D)mm

1 YEAR WARRANTY



Limited Stock

Note: iPhone® and keys not included

▲	Cat.	Qty 1+
Keyring Alert	XC-0364	\$24.95

Android PC Mirror USB Cable

Mirror your Android device onto your Windows PC. This clever device displays what you see on your Android device's screen directly on your Windows computer screen. Use the mouse and keyboard to take control, access and transfer data, send texts, send emails, check Facebook, play games and screen your phone calls. If your computer network (eg. workplace) prevents you from browsing social media and checking personal emails, this cable allows you to still access them via your data-enabled Smartphone with it discretely hidden away so the boss doesn't see. Supports all major brands of Android Smartphones and tablets such as Samsung®, HTC, Sony, LG, etc.

- Full Keyboard & Mouse Control
- Call & Message Notifications
- Screen Mirroring & Rotate
- Screen Magnification & Data Transfer
- Charges Smartphone & Tablets



Laptop and Smartphone not included

SPECIFICATIONS	WC-7682
Interface	USB 2.0
Android Support	OS 4.0+
Charging Rate	500mA
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP
Dimensions	179(L) x 19(W) x 10(H)mm



1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	WC-7682	\$59.95	\$53.95	\$47.90

Photo Printer for Android® Devices

This photo printing station is compact, simple to set-up and easy to use. Just plug in your mobile device and start printing! It runs on an all-in-one ribbon and photo paper cartridge and creates high-quality prints directly from your Smartphone, Tablet or digital camera via the Bolle Photo Plus app. Within the app you can make colour adjustments, print up to 10 copies at once, create panorama photo collages and even create greeting cards. Using your Smartphone you can create panorama photos, and the printing station will accommodate the long, landscape print in vivid colour. This system is the perfect choice for young kids and the not-so computer savvy, as it's simply plug-and-play with zero hassles. Only requires one single ink and paper cartridge for ease of use.

- Dock compatible with Android® Smartphone (OS 2.0 and above only). USB compatible with digital cameras (PictBridge). Download the "Bolle Photo Plus" App from the Google® Play store.



Smartphone not included

1 YEAR WARRANTY

Limited Stock

▲	Cat.	Qty 1+
Android® Compatible	XC-5067	\$69.95

GIFT CARD

Can't find what to buy?
Give a Jaycar Gift card and let them choose!



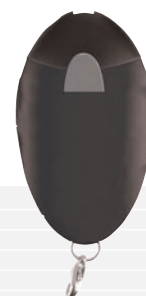
Keyring Locator with App & Bluetooth® Technology for iPhone®

An electronic leash that will sound an alarm when your iPhone® leaves your vicinity. You can also use your iPhone® to find the lost keyring thanks to the duplex communication protocol. A handy app is available which will show on Google Maps® the last time the keyring and phone were connected.

Limited Stock

SPECIFICATIONS	XC-0365
Bluetooth® protocol	4.0
Search range	20m
Batteries	Includes 1 x CR2032 button cell
Battery life	3-6 months
Dimensions	60(L) x 35(W) x 10(H)mm

Bluetooth®



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
Keyring Locator	XC-0365	\$29.95	\$26.95	\$23.70

ANTENNAS AND ADAPTORS

3G Antennas - 800 to 2100MHz with FME Connector

Using 3G wireless internet in certain areas may require the help of an antenna to boost the signal for a reliable flow of data. Both of these antennas feature a very strong magnetic base so you can fix it to the roof of your car or any other steel surface. They both support frequency ranges of 850, 1800 and 2100MHz. The cable is terminated with an FME connector.

- 5dBi 2m Cable Cat AR-3310
- 7dBi 3m Cable Cat AR-3312

See our full range of SMA connectors & adaptors on page 145



3G 7dBi 850 - 2100MHz Fibreglass Antenna

Built for maximum range and performance, the antenna is required if you need a reliable 3G/4G signal while on the road. It comes with a 5m cable with FME connector to suit a range of popular wireless devices and mobile car kits.



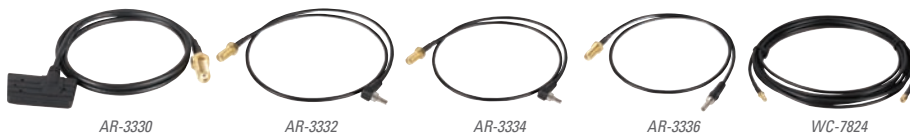
SPECIFICATIONS AR-3311	
Supports	GSM, CDMA, UMTS
Frequency	850 - 2100MHz
Gain	7dBi
Cable	5m RG58a/u
Suits	trucks, cars, 4WDs
Dimensions	747(L) x 18(Dia.)mm

▲ Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
5dBi	290mm	AR-3310	\$49.95	\$44.90	\$39.90
7dBi	950mm	AR-3312	\$69.95	\$62.95	\$55.95

▲ Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
7dBi	747mm	AR-3311	\$129.00	\$115.95	\$102.95

SMA Adaptors & Leads

Boost the reception on your 3G/4G USB modem or mobile phone - great if you live in or travel to rural areas. The adaptors plug into the antenna socket on your USB modem to extend the signal range. For devices without an SMA connection use the AR-3330 induction adaptor.



▲ Type	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
Induction 3G Plug	510mm	AR-3330	\$16.95	\$14.95	\$13.35
Huawei E160/618 Plug	500mm	AR-3332	\$16.95	\$14.95	\$13.35
Sierra TS9 Plug	500mm	AR-3334	\$16.95	\$14.95	\$13.35
Telstra 4G USB Modem Lead	490mm	AR-3336	\$16.95	\$14.95	\$13.35
Low Loss SMA Extension Lead	5m	WC-7824	\$34.95	\$31.45	\$27.90

MEDIA

OTG USB Flash Drives

USB Flash Drive features OTG (On-the-Go) to transfer data from your laptop or PC to your Android® device and vice versa. Extremely lightweight, and feature a USB connector on one end and a micro USB connector on the opposite end.

- Dimensions: 28.1(L) x 12.25(W) x 4.5(D)mm

Smartphone not included



▲	Cat.	Qty 1+
16GB	XC-5622	\$24.95
32GB	XC-5624	\$39.95

USB Flash Drive with Lightning® Connector - MFi

Using this device you can expand the storage of your existing iPhone®, iPad® or iPod®. It allows you to store, organise, and transport any type of files. Simply just drag-and-drop the files right from your computer. It works with all iPhone®, iPad® and iPod® with Lightning® connectors.

- Free app available on iTunes®
- 4GB microSD card included.
- Expandable up to a 128GB microSD card
- Dimensions: 65(L) x 27(W) x 7(D)mm



Made for
iPod iPhone iPad



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-5628	\$79.95	\$71.95	\$63.95

Wi-Fi Multi Card & USB Reader

This clever device creates a secure Wi-Fi hotspot so you can share and transfer files from your memory cards and USB storage devices wirelessly between your computers, Tablets, and Smartphones. It has an internal rechargeable battery so you can use it for up to 3 hours without power. If you connect a 3G USB dongle the device will become a 3G router allowing internet access for Wi-Fi devices. It has been tested on HDD up to 1TB. Supplied with USB to Micro-B USB power/charge cable.

- Simultaneously read/write - CF, SD, MS, M2, TF and microSD
 - Simultaneously read/write to 3 USB devices
 - Up to 20m Wi-Fi range
 - Up to 8 users can access simultaneously
 - 1000mAh rechargeable battery for up to 3 hours wireless use
- Recommended apps for transferring files from your portable devices:
- iOS - WDPlayer
 - Android - ES File Explorer
- Dimensions: 105mm x 65mm x 11mm



Wi-Fi Enabled



▲	Cat.	Qty 1+
	YN-8426	\$59.95

Screen Cleaner Kit for Small Devices

This handy screen cleaner is suitable for all small screens including iPhone®, mobile phones and cameras. The unique cleaning solution removes fingerprints, dust and stains without scratching the screen. Supplied with a washable microfibre finger cloth and a 12ml cleaning solution bottle.

- Drip-free cleaning solution
- Includes 12ml cleaning solution bottle
- Dimensions: 90(H) x 45(W) x 22(D)mm



iPhone® not included

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1415	\$4.95	\$4.45	\$3.90

SHOW US YOUR BUILD COMPETITION

Ian, who shops at our Jaycar Stockist store built:

My parade entry for the Bendigo Easter Torchlight procession using a large amount of Jaycar parts. With each dress controlled remotely it creates a unique entry.



See page 403 for Computer Media



WIRELESS SPEAKERS

Mini Portable Splashproof Bluetooth® Speaker

Pair on the go with your smartphone or other Bluetooth® streaming device. The speaker itself is rechargeable, so you can take it with you just about anywhere, and it's incredibly light. It features controls for playback (volume/play/pause/skip etc), but also the ability to answer or reject incoming calls! 10 metre effective range and up to 3 hours playback.

SPECIFICATIONS	XC-5227
Operational Range	Up to 10m
Recharge Time	2-3hrs
Output Power	3WRMS
Battery	3.7V 600mAh Li-Po
Dimensions	40(H) x 70(Dia.)mm, 138g



NEW 2017

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	XC-5227	\$19.95	\$17.95	\$15.95

Near Field Audio Wireless Speaker

Simply place your Smartphone on top of this speaker to wirelessly amplify the music playing from its loudspeaker, without the need for any configuration or connection whatsoever. This is made possible by using NearField® (Near Field Audio) technology, which also uses far less power compared to its Bluetooth® and Wi-Fi counterparts. The speaker will last up to 10 - 15 hours using 3 x AA batteries (not included) and with no extra drain on your phones battery life when playing music. It can also be powered via USB and a 3.5mm audio-in socket is provided for use with other audio devices. Suitable with iPod Touch® (4th generation), iPhone® 3/GS, iPhone® 4/4S, iPhone® 5, Samsung Galaxy® SII/SIII and many more...

SPECIFICATIONS	XC-5220	iPhone® not included
Frequency response	100Hz - 20kHz	
Output	2W x 2 RMS, 1 x bass booster	
Requires	3 x AA batteries (not included)	
Power in	5VDC	
Audio jack	3.5mm	
Dimensions	155(L) x 71(W) x 38(H)mm	



1 YEAR WARRANTY

▲	Cat.	Qty 1+
NFA	XC-5220	\$24.95

Waterproof Shower Speaker with Bluetooth® Technology

This waterproof shower speaker brings your favourite music to your bathroom. Listen to music wirelessly from your Bluetooth® enabled Smartphone or laptop, and take calls wirelessly at the touch of a button. The device comes with a suction cap that allows you to stick it to any flat surface, and is powered by a built-in battery that can be charged with the supplied USB cable.

SPECIFICATIONS	XC-5630
Maximum Range	10m
Charging Time	3 hours
Operating Time	5 hours
Dimensions	93(L) x 85(H) x 45(D)mm, 99g



NEW LOW PRICE

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	XC-5630	\$27.95	\$25.15	\$22.35

Portable Speaker with NFC & Bluetooth® Technology

A portable speaker that allows you to carry your favourite music to anywhere you are. The near field communication (NFC®) feature allows you to effortlessly connect any NFC® enabled device to the speaker system wirelessly with a single touch. Without wires your music is streamed to the stereo speaker. At the same time using Bluetooth®, you can connect your Smartphone, Tablet or any Bluetooth® enabled computer. The device is supplied with USB charge cable and 3.5mm stereo aux-in cable. It has its own volume control and wireless range up to 10m. The speaker allows you to answer a phone call by just a click on the button located on the top.

- Microphone and hands free support
- Aux in, 3.5mm stereo socket
- Bass Diaphragm to reproduce ultra-low frequency sounds
- Built-in rechargeable battery

SPECIFICATIONS	XC-5209
Output power	2 x 2WRMS
Range	10m
Frequency response	90Hz - 18kHz
Impedance	4 OHM
Charging time	3.5 hours
Playback time	max volume: approx. 5 hours, 80% volume: 6.5-7 hours
Dimensions	165(L) x 65(H) x 35(W)mm



1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	XC-5209	\$44.95	\$40.45	\$35.95

Rechargeable Waterproof Speaker with Bluetooth®

This portable waterproof speaker is perfect for listening to your music in the bathroom, at the beach, by the pool or while camping. It's rugged and portable design make this unit a perfect companion for outdoor activities. Once the speaker is paired with your Bluetooth® enabled Smartphone you can enjoy all of your favourite music. It also features a built-in microphone so you can take phone calls and have conversations through the speaker.

For direct connection, there is a 3.5mm aux jack and a micro-USB charging port.

- Package Includes USB charging cable and 3.5mm stereo audio cable

SPECIFICATIONS	XC-5213
Bluetooth® Version	3.0+EDR
Frequency Response	150-18kHz
Loud Speaker	2 x 4WRMS with Radiator Bass
Signal and noise ratio	≥75dB
Battery	1,800mAh
Operating range	10 metres
Charging / Playback	Approx 2 hrs / Approx 8 hrs
IP Rating	IP66
Dimensions	195(L) x 75(W) x 55(H)mm, 440g



1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	XC-5213	\$69.95	\$62.95	\$55.95

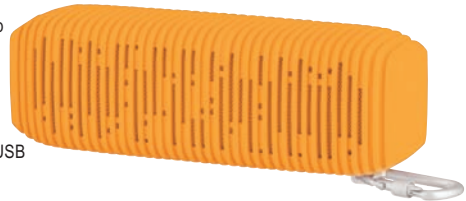
Rechargeable Waterproof Speaker with NFC & Bluetooth® Technology

Forget the cords and cables - connect your Smartphone or laptop to this rechargeable speaker wirelessly via Bluetooth® or NFC®. It has a stylish design and with its bass diaphragm produces amazing sound for its size. It also features a built-in microphone so you can take phone calls hands-free. Supplied with a USB cable to charge the built-in 1800mAh Li-ion battery that provides up to 5 hours listening time. A 3.5mm stereo audio cable is also included to connect other devices.

Supplied with a micro USB chargeable cable and a 3.5mm audio cable.

- IPX4 rated

SPECIFICATIONS	XC-5219
Output power	2 x 3WRMS
Frequency response	90Hz - 18kHz
Impedance	4ohm
Sensitive	80dB±2dB
S/N Ratio	>65dB
Distortion	<1%
Charge time	3.5 - 4.5 hours
Listening time	4 - 5 hours
Power supply	Built-in battery or micro USB 5V
Dimensions	186(L) x 62(H) x 56(D)mm



1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
NFC & Bluetooth®	XC-5219	\$79.95	\$71.95	\$63.95

Rechargeable Bluetooth® Speaker

Compact enough to take anywhere, but loud enough to get the party started! With a wide dynamic range of 90Hz to 20kHz, you get high quality audio streaming straight from your smart device, or laptop. You can even use non-Bluetooth® devices with the included 3.5mm audio cable. When using Bluetooth® connectivity however, you also gain play/pause and next/previous control right from the speaker. This means you can keep your device hidden (or charging somewhere) and still keep control of the music. The built-in Lithium battery keeps you untethered, and you simply recharge via the included USB cable.

- Rechargeable
- On-board playback control
- High Quality Audio

SPECIFICATIONS	XC-5225
Output Power	2 x 6WRMS
Frequency Response	90Hz - 20kHz
Speaker Impedance	4Ω
Signal to Noise Ratio	≥ 60dB
Distortion	≤0.3%
Battery	2200mAh Lithium (internal)
Dimensions	210(W) x 110(H) x 51(D)mm, 850g



1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Bluetooth®	XC-5225	\$129.00	\$115.95	\$102.95

Communications.



COMMS

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TRANSCIVERS

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THE GME / KINGRAY STORY

In the course of my long career in electronics, I have either worked for or had an association with many local branches of foreign electronics companies or Australian companies that were household names. AWA, in particular, comes to mind.

Most of these companies have disappeared but some have not. One local and continuing success story is a company known under several names. The company that I am referring to is known formally as Standard Communications, but it is better known as either GME for communications equipment, or Kingray for TV reception products.

The company was founded by an entrepreneurial radio engineer, Ted Dunn. Ted started his career like thousands of others over the years at AWA towards the end of the Second World War. (AWA, at the time was estimated to have a greater market capitalisation than BHP.)

Ted's talents must have been recognised, because he was sent to the UK to Thorn Electrical Industries, an early pioneer TV set maker, which AWA had an association with. Among others, Ted's job was to design a TV set for the Australian market. (TV was launched in Australia in 1956 to coincide with the Melbourne Olympics.)

Ted ultimately came back to Australia to establish a TV set factory in Melbourne under the Thorn brand. Ted, however, had a burning desire to run his own business and he moved back to Sydney, setting up a workshop in the backyard of his parent's home in Thornleigh. Ted started by repairing notoriously unreliable TV tuners (which, at the time were a completely separate subsystem to the TV itself) and also supplied electronic components to the burgeoning TV repair industry.

Australia took up TV with an enormous appetite and it was obvious that TV reception, especially outside of Sydney and Melbourne was quite unsatisfactory. Indeed, it is astonishing what terrible reception people put up with in those days.

With his intimate knowledge of TV set design, particularly the RF front end, Ted recognised that the market needed a signal booster, preferably at the top of the antenna itself, to improve reception. He was aware of emerging

high performance broad bandwidth transistors which had economical power consumption that only needed feeble currents derived from the TV aerial wire. These products were of such sound design, they are still in use today.

Masthead amplifiers helped bank-roll Kingray/GME to bigger things. Ted went on to develop communications products, including an early VHF marine radio and later UHF CB radios

When Gough Whitlam reduced tariffs 25% across the board in the early '70's many thought this was overdue, and in a lot of cases, it was. It was a blunt instrument, however and created havoc in manufacturing in Australia, especially electronic.

Being a realist, Ted knew that the only way to remain as a viable manufacturer in Australia was to automate the time-consuming assembly of electronic products. He was one of the first in Australia (outside of the car industry) to purchase a robotic pick and place machine. This one decision guaranteed that Ted's legacy will live on.

Today, a visit to Standard Communications Head Office and manufacturing facility reveals state-of-the-art electronic assembly that would not be out of place in Japan, Korea or China. That, and first class engineering designs with forward thinking management (including second generation Dunn family members,) has and is creating world-beating products which include a large range of communication equipment, TV signal processors, and superbly designed emergency radio beacons.

In a country that now depends on the importation of almost all manufactured goods, it is wonderful that this company is bucking the trend by exporting dozens of elaborately transformed, sophisticated products to over 40 countries worldwide.

Jaycar is very, very proud to be associated with Standard Communications. Let them continue to prosper.

Gary Johnston
Managing Director
Jaycar



UHF TRANSCEIVERS (CB RADIOS)

UHF TRANSCEIVERS - HANDHELD

COMPARISON GUIDE

	DC-1017	DC-1009	DC-1027	DC-1049	DC-1074	DC-1065	DC-9000	DC-9004	DC-9008	DC-1068
Max Output Power	0.5W	0.5W	0.5W	2W	3W	5W	1W	2W	5W	5W
Range (line-of-sight)	3km	3km	3km	10km	10km	20km	6km	9km	14km	20km
Rechargeable		•	•	•	•	•	•	•	•	•
Pair	Pair	Pair	Pair							
CTCSS			•	•	•	•	•	•	•	•
Waterproof (IPX7)									•	•
VOX			•	•		•	•	•	•	•
Repeater Function	•	•	•	•		•				•
Charging Dock		•	•		•	•				•
Supports 12V Car Charging			•	•		•	(Optional)	(Optional)	(Optional)	•
Supports Headset			•	•	•	•	•	•	•	•
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0.5W UHF CB Radio Twin Pack - 80 Channel

MADE FOR KIDS, 0.5W, GREAT VALUE

Two pack of mini UHF CB radios with up to 3km range. Ideal for keeping in touch with the kids at campsites, picnics, skiing and hiking trips. They retain many of the features and build quality of more expensive units but come in a child friendly package. Also features a built-in LED torch to find your way in the dark.

- Up to 3km range
- 80 Channels
- Push to Talk (PTT) function
- Electronic volume control
- Scan channel, call tone & monitor
- Low battery alert
- Duplex range extender
- Requires 3 x AAA batteries per unit
- Dimensions: 55(W) x 110(H) x 35(D)mm
- Supplied as a pair in red & blue



0.5W UHF Transceiver - 80 Channel - Rechargeable

ECONOMY RECHARGEABLE, 0.5W, PAIR

Out in the bush and you need to read a map in the dark? No problem! Your CB has an LED torch built in to it. Naturally it does all the normal CB functions as well and includes desktop charging cradle, AC adaptor, two transceivers and batteries.

- Up to 3km range
- Up to 30 hours battery life
- Charging time: 6 hours
- 80 channels
- PTT function
- Scan function
- Auto squelch
- Sold as a pair



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
0.5W Transceivers - Twin Pack	DC-1017	\$49.95	\$44.90	\$39.90

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
0.5W Transceivers - Twin Pack	DC-1009	\$79.95	\$71.95	\$63.95

UHF TRANSCEIVERS (CB RADIOS) (CONTINUED)

0.5W UHF Transceivers - 80 Channel - Pair - Rechargeable

FULL FEATURE RECHARGEABLE, 0.5W, PAIR

Everything you need for mobile CB communications. 80 channel UHF CB radios complete with rechargeable batteries, dual charger cradle and a range of accessories. They have 0.5 watt output for up to 5km transmission range and CTCSS function. Ideal for bushwalking, camping, sports, etc.

- Sold as a pair
- No license required
- 80 channels and 38 sub-channels
- Babysitter and parent-monitor
- VOX function
- Stop watch
- Repeater function
- Automatic squelch
- Battery level indicators
- Key lock & tone function
- Backlit LCD
- Supports external headset
- Supports external AC-DC charger



1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
0.5W UHF Transceiver - Single	DC-1027	\$109.00	\$97.95	\$86.95
▲ Accessories to Suit	Cat.	Qty 1+	Qty 5+	Qty 10+
Spare Rechargeable Battery	DC-1029	\$14.95	\$13.35	\$11.70
Cigarette Lighter Charger	DC-1036	\$17.95	\$15.95	\$14.35
Mains Charger	DC-1034	\$17.95	\$15.95	\$14.35
Leather Pouch	DC-1018	\$6.95	\$6.25	\$5.50
Earpiece with Throat Mic	DC-1039	\$22.95	\$20.35	\$18.35
VOX Headset & Microphone	DC-1056	\$14.95	\$13.35	\$11.70
Air Tube Headset	DC-1031	\$39.95	\$35.90	\$31.90

GME 1W UHF Transceivers - TX665

This 1 watt UHF CB radio is both compact and lightweight with up to 17 hours battery life. It has a USB multi-charging system for charging on the go. 17 hours operating time using low output power, 12 hours using high output power (Based on 5% transmitting, 5% receiving and 90% waiting mode).

- 1.0/0.5 watt
- 1000mAh Li-ion battery
- Unique USB multi-charge system allows for easy recharging while on the go
- Lightweight and compact
- User programmable duplex function
- VOX hands free mode
- Power save feature
- Calling tone and roger beep
- Microprocessor controlled frequency synthesiser
- User programmable scan function
- High contrast backlit LCD for night viewing

Two models available:



NEW
2017

GME

SPECIFICATIONS	BOTH MODELS
Dual Watch	Monitors two channels simultaneously
CTCSS & DCS	A built-in Continuous Tone Coded Squelch System and a Digital Coded Squelch option provide quiet operation
Keypad Lock	Prevents accidental button presses
Dimensions	52(W) x 90(H) x 30(D)mm (without antenna)

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 6+
1W UHF Transceiver - Single	DC-9000	\$89.95	\$85.45
▲	Cat.	Qty 1+	Qty 4+
1W UHF Transceivers - Twin Pack	DC-9002	\$145.00	\$136.95
▲ Accessories to Suit	Cat.	Qty 1+	Qty 10+
Speaker Mic	DC-9024	\$66.95	\$62.95
Ear Mic	DC-9026	\$33.95	\$31.95
Dual Desktop Charger*	DC-9038	\$33.95	\$31.95
Leather Case	DC-9030	\$21.95	\$20.45
Belt Clip	DC-9034	\$10.95	\$9.95
Spare Battery 1,000mAh	DC-9036	\$28.95	\$27.45

2 Watt UHF Transceiver with CTCSS - 80 Channel Advanced

With 2 watts of output power, this UHF transceiver is certainly no toy. This top quality unit will suit many professional and leisure activities with a range of up to 10km line-of-sight. You can save battery power by switching to the low setting (500mW) for local communications (such as around the campsite). It's loaded with all the features you would expect from an advanced system like CTCSS that reduces interference from other users on the same channel, 75 voice channels, plus it has a rechargeable Li-ion battery with a plug pack charger.

- CTCSS function
- Hi/Lo power output
- Dual watch/vox function
- Key lock/tone function
- Optional 12V charging (cable not included)
- Auto squelch function
- Low battery display
- Backlit LCD
- Roger tone
- Li-ion rechargeable battery
- Stop watch
- Dimensions: 120(L) x 57(W) x 35(H)mm



1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
2W UHF Transceiver - Single	DC-1049	\$89.95	\$80.95	\$71.95
▲ Accessories to Suit	Cat.	Qty 1+	Qty 5+	Qty 10+
In-dash Car Charger	DC-1035	\$17.95	\$15.95	\$14.35
Speaker Mic	DC-1062	\$24.95	\$22.35	\$19.70
Spare Battery	DC-1048	\$29.95	\$26.90	\$23.70
Leather Pouch	DC-1042	\$9.95	\$8.75	\$7.75
Earpiece with Throat Mic	DC-1039	\$22.95	\$20.35	\$18.35
VOX Headset & Microphone	DC-1056	\$14.95	\$13.35	\$11.70
Air Tube Headset	DC-1031	\$39.95	\$35.90	\$31.90

GME 2W UHF Transceivers - TX675

This 2 watt UHF CB radio is both compact and lightweight with up to 14 hours battery life. It has a flexible detachable antenna, rotary power/ volume control and a USB multi-charging system for charging on the go.

- User programmable duplex function
- VOX hands free mode
- Microprocessor controlled frequency synthesiser
- User programmable scan function

Two models available:



NEW
2017

GME

SPECIFICATIONS	BOTH MODELS
Dual Watch	Monitors two channels simultaneously.
CTCSS & DCS	A built-in Continuous Tone Coded Squelch System and a Digital Coded Squelch option provide quiet operation
Dimensions	52(W) x 90(H) x 30(D)mm (without antenna)

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 6+
2W UHF Transceiver - Single	DC-9004	\$109.00	\$102.95
▲	Cat.	Qty 1+	Qty 4+
2W UHF Transceivers - Twin Pack	DC-9006	\$209.00	\$195.00
▲ Accessories to Suit	Cat.	Qty 1+	Qty 10+
Speaker Mic	DC-9024	\$66.95	\$62.95
Ear Mic	DC-9026	\$33.95	\$31.95
Dual Desktop Charger	DC-9028	\$33.95	\$31.95
Spare Battery	DC-9044	\$46.95	\$43.95
Leather Case	DC-9030	\$21.95	\$20.45
Replacement Antenna	DC-9032	\$46.95	\$43.95
Belt Clip	DC-9034	\$10.95	\$9.95

UHF TRANSCEIVERS (CB RADIOS) (CONTINUED)

3W Waterproof Floating UHF Transceiver

A robust floating transceiver suitable for professional or recreational use. A 10km line-of-sight range will allow you to keep in contact over large distances and IP67 rating means it can be submersed in up to 1m of water. Battery power can be conserved by switching to the low setting (500mW) for local communications around base camp. Includes a rechargeable Li-ion battery with a charging cradle and power supply. There are 75 voice channels and the CTCSS system reduces interference from users on other channels. Great for camping, off-road race crews, roadies, people who work at large sporting venues, and more.

- IP67 rated
- CTCSS function
- Hi/Lo power output
- Auto squelch function
- Low battery display
- Backlit LCD
- Roger tone
- Li-ion rechargeable battery
- Stop watch
- Dimensions: 120(L) x 57(W) x 35(H)mm



DC-1076

It Floats

Tradies Pack includes:

- 2 x 3W UHF Transceivers
- 2 x Mini Speakers/Microphones
- 2 x 12V cigarette lighter chargers
- 2 x VOX Headset & Microphone
- 1 x Dual charging cradle with mains supply



▲		Cat.	Qty 1+	Qty 5+	Qty 10+
	3W UHF Transceiver - Single	DC-1074	\$129.00	\$115.95	\$102.95
	3W Tradies Pack	DC-1076	\$329.00	\$299.00	\$265.00
▲	Accessories to Suit	Cat.	Qty 1+	Qty 5+	Qty 10+
	Spare Battery	DC-1075	\$24.95	\$22.45	\$19.95

GME 5W UHF Transceiver - TX6155

This rugged Australian designed handheld UHF radio is built with a die-cast chassis and is rated IP67 water and dust proof. With a powerful 2600mAh lithium ion battery pack and intelligent battery management it can operate for a maximum of 30 hours on low power or 15 hours on high power - 50% longer than any other 5W UHF CB radio. It is equipped with a super sensitive receiver with input filtering and has an extensive list of innovative software features in scanning, memory, signal processing and privacy.

- 5/1W switchable output power
- Waterproof (IPx7)
- Voice scramble
- 2,600mAh Li-ion rechargeable battery
- CTCSS interference eliminator
- VOX hands free capable
- Digital Code Squelch
- Power save function

Two models available:



Note: Spare parts not stocked in all stores but can be ordered



▲		Cat.	Qty 1+	Qty 6+
	5W UHF Transceiver - Single	DC-9008	\$329.00	\$309.00
	5W UHF Transceiver - Twin Pack	DC-9010	\$549.00	\$519.00
▲	Accessories to Suit	Cat.	Qty 1+	Qty 10+
	Speaker Mic*	DC-9024	\$66.95	\$62.95
	Ear Mic*	DC-9026	\$33.95	\$31.95
	Dual Desktop Charger	DC-9022	\$76.95	\$72.95
	Spare Battery 2,600mAh	DC-9020	\$154.95	\$146.95

5W UHF Transceiver

Remarkable range and clarity. With a powerful 5W output you'll be able to communicate far beyond consumer grade models. For short range banter, you can switch to power-saving 1W output so you can recharge later rather than sooner. Other features include 80 channels with CTCSS, channel scan, VOX and repeater functions.

Includes Li-Ion rechargeable battery pack, AC adaptor, charging cradle and belt clip.

- Range: 3km/20km
- 1W/5W switchable output power
- 80 channels
- CTCSS sub channel calling
- LCD backlit display
- Dual watch
- VOX function
- Repeater function
- Detachable antenna
- Key lock function
- Channel scan function
- Auto power saver mode
- Antenna: 130mm long
- Dimensions (without antenna): 130(L) x 60(W) x 35(D)mm



Thousands Sold



▲		Cat.	Qty 1+	Qty 5+	Qty 10+
	5W UHF Transceiver - Single	DC-1065	\$149.00	\$133.95	\$118.95
▲	Accessories to Suit	Cat.	Qty 1+	Qty 5+	Qty 10+
	Cigarette Lighter Charger	DC-1099	\$17.95	\$15.95	\$14.35
	Speaker Mic	DC-1062	\$24.95	\$22.35	\$19.70
	Leather Case	DC-1067	\$12.95	\$11.65	\$10.35
	VOX Headset & Microphone	DC-1056	\$14.95	\$13.35	\$11.70
	Air Tube Headset	DC-1031	\$39.95	\$35.90	\$31.90

5W UHF Handheld Transceiver

Ultra high powered UHF transmission from a compact handheld unit. It has all the features you would expect such as 1W/5W power selection (to save battery), CTCSS, VOX, and a large backlit LCD. Advanced repeater and triple-watch features are on-board too, often reserved for more expensive units. Providing up to 20km range in a weatherproof case, it's exceptionally good value. Includes Li-ion rechargeable battery pack, AC adaptor, charging cradle and belt clip.

- Range: 3km/20km
- 1W/5W switchable output power
- 80 channels
- IP67 weatherproof
- CTCSS sub channel calling
- LCD backlit display
- Triple watch
- VOX function
- Repeater function
- Detachable antenna
- Key lock function
- Channel scan function
- Auto power saver mode
- Antenna: 66mm long
- Dimensions: 119(L) x 60(W) x 45(D)mm (Excluding Antenna)



Due September 2017

▲		Cat.	Qty 1+	Qty 5+	Qty 10+
	5W UHF Transceiver - Single	DC-1068	\$169.00	\$152.00	\$135.00
▲	Accessories to Suit	Cat.	Qty 1+	Qty 5+	Qty 10+
	Cigarette Lighter Charger	DC-1099	\$17.95	\$15.95	\$14.35
	Speaker Mic	DC-1062	\$24.95	\$22.35	\$19.70
	Earpiece with Throat Mic	DC-1039	\$22.95	\$20.35	\$18.35
	VOX Headset & Microphone	DC-1056	\$14.95	\$13.35	\$11.70
	Air Tube Headset	DC-1031	\$39.95	\$35.90	\$31.90

UHF TRANSCEIVERS (CB RADIOS) (CONTINUED)

5W UHF CB Radio - In-Dash

Fixed installation UHF transceivers in your vehicle are always a better option as you get range and power. You'll always be connected to a higher gain antenna with a ground plane and you can always get more transmitting power as you aren't restricted to small batteries that hand-held units typically have. All the usual UHF CB features, such as channel scan, repeater access and CTCSS. Includes handheld microphone with push to talk and channel change buttons. Ideal as a vehicle unit for 4WD etc.

- 80 channel
- Signal strength meter
- Up to 20km range line-of-sight
- Compact size for under-dash mounting
- Mic and lead included
- Mounting bracket included



CB RADIO AND ANTENNA BUNDLE - DC-1121

CB Radio and antenna bundle that combines our Compact 5W UHF CB Radio (DC-1120) and UHF 5dBi Fibreglass Antenna with 5m Cable (DC-3078)

PLASTIC MICROPHONE BRACKET

Microphone bracket clip to suit DC-1120 UHF handset. Back plate features mounting holes for screwing it in and is flat enough to use double sided adhesive tape. Stainless steel mounting screws included.

- Dimensions: 33mm x 36mm

DC-3080



*Replacement microphone not stocked in all stores but can be ordered

▲		Cat.	Qty 1+		
	5W UHF Radio	DC-1120	\$139.00		
	5W UHF Radio + Antenna	DC-1121	\$219.00		
▲	Accessories to Suit	Cat.	Qty 1+	Qty 5+	Qty 10+
	Mic Bracket Clip	DC-3080	\$5.95	\$5.25	\$4.75
	Replacement Microphone*	DC-1124	\$24.95	\$22.50	\$19.95

5W UHF CB Radio - Under Dash

This unit allows you to remotely locate the transmit/receive base unit and only have the microphone itself within easy reach. All functions for the unit are on the face of the microphone, there are no controls on the power unit at all. The microphone has a speaker in it, which enables you to completely control the transceiver from this unit.

- 100 User Programmable RX Channels
- Group Scan
- 3 LCD and 1 key backlight colour
- Signal strength and power meter
- Call tone melody
- Key and ringer tone selection
- CTCSS(38) & DCS(104) status codes
- Channel / Memory Scan
- Stop watch function
- Volume adjustment



Replacement microphone not stocked in all stores but can be ordered

SPECIFICATIONS	DC-1122
Channels	80
Power Output	5W
Voltage	12-24VDC
Range	Up to 18km
Dimensions	127(W) x 100(L) x 25(H)mm (Base Unit) 102(H) x 57(W) x 27(D)mm (Microphone)



▲		Cat.	Qty 1+	Qty 5+	Qty 10+
	5W UHF Radio	DC-1122	\$249.00	\$225.00	\$198.95
	Antenna to suit	DC-3078	\$99.95	\$89.95	\$79.95
▲	Accessories to Suit	Cat.	Qty 1+	Qty 5+	Qty 10+
	Mic Bracket Clip	DC-3080	\$5.95	\$5.25	\$4.75
	Replacement Microphone	DC-1125	\$79.95	\$71.95	\$63.95

GME 5W UHF In-Dash Starter Pack - TX3100VP

Begin your UHF CB experience with everything you need from the get-go. The super compact size and power, combined with its ease of use, makes it a perfect UHF CB radio for all types of users. Coupled with a high performance antenna and mounting bracket, this Starter Kit is all you'll need in the one box!

- Digital Signal Processing
- CTCSS and DCS
- Selectable duplex channels
- Dynamic volume control
- Display flip function
- Programmable scan function
- Adjustable squelch



In the box:

- 5W UHF CB radio (TX3100)
- Radio mounting bracket and screw pack
- Microphone and microphone clip
- Cigarette lighter DC power lead
- 6.6dBi ground independent antenna (930mm high) with 4.5m lead
- Universal "Z" bonnet/boot antenna mount



▲		Cat.	Qty 1+	Qty 6+
	5W UHF Radio Starter Pack	DC-9014	\$329.00	\$309.00
▲	Accessories to Suit	Cat.	Qty 1+	Qty 10+
	Suction Mount Bracket*	DC-9040	\$46.95	\$43.95
	Microphone to suit*	DC-9042	\$53.95	\$50.95

GME 5W UHF In-Dash Plug n Play Transceiver - TX3100PNP

This Plug'n Play CB radio comes with a compact high performance antenna with strong magnetic base and 2.4m lead, and a suction cup mount for the radio, making it easy to install, pack away after use, or to transfer easily between vehicles. For power simply plug it into the cigarette lighter power socket. The 5 watt CB radio is compact in size, and incorporates the latest Digital Signal Processing technology for maximum performance.



- Digital Signal Processing
- CTCSS and DCS
- Selectable duplex channels
- Dynamic volume control
- Display flip function
- Programmable scan function
- Adjustable squelch



In the box:

- Super compact 5W UHF CB radio (TX3100)
- High performance magnetic antenna
- 360° adjustable mounting bracket
- Cigarette lighter DC lead
- 2.4m RG174/U coaxial lead terminated with FME plug



▲		Cat.	Qty 1+	Qty 6+
	5W UHF Transceiver	DC-9012	\$329.00	\$309.00

UHF TRANSCEIVERS (CB RADIOS) (CONTINUED)

GME 5W UHF In-Dash Value Pack - TX3500SVP

One of the most advanced 5 Watt UHF CB radios of its kind. Equipped with ScanSuite®, GME's newest digital scanning technology, and an impressive feature list that includes Digital Signal Processing, Advanced Signal Management, Dynamic Volume Control and 19 extra receive channels. With CTCSS and DCS this radio ensures more privacy and less interruption. The compact size and unique slide-in mounting cradle makes installation simple and our intuitive user interface and controls ensure all of our technology is easy to use and optimises performance across the 80 channels. Supplied with two interchangeable antenna masts for rugged and flat terrain, along with two different mounting brackets.



In the box:

- 5W UHF CB Radio (TX3500S)
- Rugged Microphone with microphone clip
- 6.6dBi ground independent antenna (930mm high) with 4.5m lead
- 2.1dBi low gain replacement antenna whip (150mm high)
- Universal "Z" bonnet/boot antenna mount
- Universal bull bar antenna mount
- Cigarette lighter DC power lead
- Mounting Cradle and screw pack



▲	Cat.	Qty 1+	Qty 6+
5W UHF Transceiver Pack	DC-9016	\$449.00	\$419.00

GME 5W UHF In-Dash Ultimate Pack - TX3350UP

A feature packed super compact UHF CB radio with the new SoundPath® full function LCD speaker microphone. The microphone has a built-in speaker with clear audio, all within a compact and ergonomic design. SoundPath® diverts the audio through a unique convex path around the microphone bollard, whilst maintaining the compact size. Because the controls are on the microphone the radio can be discretely installed in almost any location within a vehicle and without the need for extension speakers. Supplied with two interchangeable antenna masts for rugged and flat terrain, along with two different mounting brackets.

- SoundPath® speaker microphone
- Digital Signal Processing
- CTCSS and DCS
- Selectable duplex channels
- Dynamic volume control
- Programmable scan function
- Adjustable squelch



In the box:

- 5W UHF CB Radio (TX3350)
- LCD Speaker Microphone with microphone clip
- 6.6dBi ground independent antenna (990mm high) with 4.5m lead
- 2.1dBi low gain replacement antenna whip (150mm high)
- Universal "Z" bonnet/boot antenna mount
- Universal bull bar antenna mount
- Cigarette lighter DC power lead
- Mounting Cradle and screw pack



▲	Cat.	Qty 1+	Qty 6+
5W UHF Radio Ultimate Pack	DC-9018	\$549.00	\$519.00

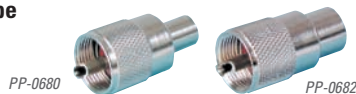
UHF TRANSCEIVERS - IN-CAR

	DC-1120	DC-1121	DC-1122	DC-9014	DC-9012	DC-9016	DC-9018
Brand	Digitech	Digitech	Digitech	GME	GME	GME	GME
Max Output Power	5W	5W	5W	5W	5W	5W	5W
LCD Speaker Microphone			•			•	•
Mounting Type	In-Dash	In-Dash	Under Dash	In-Dash	Suction	Under Dash	In-Dash
Includes Magnetic Antenna					•		
Includes 2.1dBi Antenna						•	•
Includes 5dBi Antenna							
Includes 6.6dBi Antenna				•		•	•
Includes Z-Type Antenna Mount				•		•	•
Includes Bullbar Antenna Mount						•	•
Page	375	375	375	375	375	376	376

COMPARISON GUIDE

UHF TRANSCEIVERS (CB RADIOS) ACCESSORIES

UHF Line Plugs - PL259 Type



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Solder - RG-58U - with Reducer	PP-0680	\$2.95	\$2.60	\$2.30
Solder - RG-8U	PP-0682	\$2.95	\$2.60	\$2.30

UHF Joiner & Socket



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Joiner - Double Female	PS-0690	\$3.95	\$3.45	\$3.15
SO239 Chassis Socket	PS-0686	\$2.95	\$2.60	\$2.30

50 Ohm RG58/U Coax Cable

Suited up to 500MHz, ideal for CB, marine, amateur and two-way radio.



For full specifications see page 159

Sold by the metre or by the 100m roll

▲	Cat.	Per Metre	1+ Rolls	5+ Rolls
	WB-2010	\$1.45	\$120.00	\$100.00

Rotary Coax Stripper

This handy stripper will strip the outside jacket and inner conductor in one operation.

- Suitable for RG58/59/62/6 and 3C2V 75 ohm cable
- Simply rotate the stripper clockwise around the cable 3 to 6 times. A quality stripper suited to installers



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1820	\$19.95	\$17.95	\$15.95

UHF ANTENNAS & ACCESSORIES

UHF Premium Antenna Kits

Robust and durable antennas for UHF communications. Independent ground plane to ensure stable radiation pattern in all mobile mounting applications. Two models to choose from. Each feature 5m pre-terminated cables with FME socket and PL259 adaptor so no tools are required.

4DBI FLEXIBLE UHF ANTENNA

- 407mm long
- Includes 'L' guard mount bracket

DC-3073

SPECIFICATIONS	DC-3073
Frequency	476.42 - 477.40MHz
Gain	4dBi
VSWR	<1.5:1
Impedance	50 Ohms
Polarization	Vertical
Radiation	Omni Directional
Cable	LL195 Low loss, 5m length
Termination	FME socket + UHF plug to FME plug adaptor
Base Materials	Stainless Steel Brass
Antenna Length	407mm



PREMIUM UHF ANTENNA WITH 3DBI & 6.5DBI ANTENNAS

- Stainless spring & elevated feed base
- 450mm (3dBi) and 900mm (6.5dBi) long
- Includes 'L' guard mount bracket and bull bar bracket

DC-3071

SPECIFICATIONS	DC-3071
Frequency	476 - 477MHz
Gain	3dB, 6.5dB* (* Reference to ¼ waves mounted on centre of Vehicle Roof)
Input impedance	50 Ohms
Radiation pattern	Omni directional
Antenna materials	Brass & flexible polypropylene radome
Antenna weight	190g
Cable	LL195 Low loss, 5m Length
Termination	FME socket + UHF plug to FME plug adaptor
Antenna length	407mm 450mm 900mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
4dBi	DC-3073	\$69.95	\$62.95	\$55.95
3dBi & 6.5dBi	DC-3071	\$129.00	\$115.95	\$102.95

UHF 5dBi Fibreglass Antenna with 5m Cable

Another addition to our antenna range. This model is suitable for cars and trucks using UHF transceivers.

The antenna is fibreglass and it features a tough flexible spring base to absorb and deaden the vibrations associated with driving.

SPECIFICATIONS	DC-3078
Frequency	477MHz for UHF
Cable connector	FME
Gain	5dBi
Length	630mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	DC-3078	\$99.95	\$89.95	\$79.95

UHF 4.5dB Black Whip

Offers at least 4.5dB gain.

- Black powder coated
- Stainless steel whip
- Length 565mm.
- Suits standard UHF 5/16" base Cat. DC-3062 on page 377

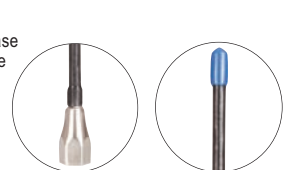


▲	Cat.	Qty 1+	Qty 5+	Qty 10+
4.5dB	DC-3074	\$22.95	\$20.35	\$18.35

External UHF Antenna

For use with our external antenna base (DC-3066) or any other antenna base with suitable connecting thread.

- Operating Frequency: 477MHz
- Gain: 5-6dBi
- Impedance: 50Ohm
- Length: 650mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
5-6dB	DC-3076	\$19.95	\$17.70	\$15.70

Plastic Microphone Bracket

Microphone bracket clip to suit DC-1120 UHF handset. The back plate features mounting holes for screwing it in and is flat enough to use double sided adhesive tape. Stainless steel mounting screws included.

- Dimensions: 33mm x 36mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3080	\$5.95	\$5.25	\$4.75

Metal Microphone Bracket

Microphone bracket clip to suit most UHF/VHF receiver handsets. The metal plate features mounting holes for screwing it in for a solid mount.

- 3 screws Included.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3082	\$7.95	\$7.15	\$6.35

UHF Base

Constructed from UV stable polypropylene and a 5/16", 26TPI plated brass bolt.

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3062	\$12.95	\$11.35	\$10.35



Universal CB Base

Standard 5/16" 26TPI low profile base complete with solder lugs for cable connection.



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3060	\$10.95	\$9.75	\$8.75



UHF External Antenna Base with Cable

Designed for use with our fixed installation transceiver unit (DC-1120) to enable you to connect an antenna. The antenna base can be mounted to a bracket and the PL259 plug will connect to the UHF unit.

- PL259 connection: 17(Dia.)mm
- RG58 Coax Cable
- Antenna base dimensions: 44(Dia.) x 40(H)mm
- Cable length: 4500mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3066	\$29.95	\$26.95	\$23.95

27MHz Helical Whip

High performance helical fibreglass mobile whips designed and manufactured in Australia to suit our rugged conditions. All with standard 5/16" 26TPI thread.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
900mm	DC-2030	\$16.75	\$14.95	\$13.35

RELATED PRODUCTS

FROM
\$29.95
WH-5521



HEATSHRINK PACK

P165

FROM
\$1.85
HP-1200



CABLE TIES

P168

FROM
\$9.95
HP-1235



DUNE TUBE

P167

FROM
\$15.95
NM-2836



LIQUID ELECTRICAL TAPE

P184

UHF ANTENNAS & ACCESSORIES (CONTINUED)

Trunk Groove Bracket - Z Shape

Polished stainless steel bracket in a Z shape to mount an antenna on the vehicle boot or bonnet.

SPECIFICATIONS	DC-3075
Antenna mounting	16mm
Mounting holes	4 x 4.6mm
Cable entry	5.5mm
Back plate	52(W) x 57(H)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3075	\$9.95	\$8.95	\$7.95

Right Angle Bull Bar Bracket Stainless Steel

This stainless steel bracket will allow you to attach an antenna to your vehicles bull bar to improve reception to your UHF radio. For those who frequently work or travel to remote areas this is ideal.

- Dimensions of L bracket: 56 x 57 x 54mm
- Length of U brackets 72mm
- Material: 304 Grade Stainless steel



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	DC-3077	\$14.95	\$13.35	\$11.70

Wireless at War Book - by Peter Jensen

The existence of electromagnetic radiation was first demonstrated in 1885 by Heinrich Hertz. After 1900 the potential advantages of wireless technology to the battlefield and for marine warfare became known, interested industrial organisations multiplied, keeping pace with the growth of the armies and navies. This book features 250 photos and diagrams and tracks the use of wireless technology in war from its inception all the way up to more recent conflicts in Afghanistan. Special reference is made to military communications used by the Australian Army, especially WWII and Vietnam. Whilst overseas references are made, this book is basically about radio technology and the Australian army. It was written by an Australian radio historian. A great read. Softcover 352 pages. 225 x 150mm



▲	Cat.	Qty 1+
	BM-2490	\$29.95

Universal Bullbar Mounting Brackets

These brackets are designed to mount driving lights, spotlights, UHF antenna's and other various applications to a tube frame (such as a bull-bar). Allows for much easier attachment to bull-bars, trailer railing, ute roll-bars or even a roof rack. Stainless steel construction with shockproof rubber insulation so your tube frame isn't scratched or dented.



Ideal for use with our range of 12VDC LED lights SL-3914, SL-3912, SL-3916, SL-3918, SL-3920 and SL-3922.

- Can be adapted to mount driving lights
- 3 sizes available to fit various diameter frames:

▲	Diameter		Cat.	Qty 1+	Qty 2+	Qty 6+
	25-38mm	Bullbar Mount	SL-3925	\$14.95	\$13.35	\$11.70
	40-52mm	Bullbar Mount	SL-3927	\$14.95	\$13.35	\$11.70
	70-80mm	Bullbar Mount	SL-3929	\$19.95	\$17.70	\$15.70

SHOW US YOUR BUILD COMPETITION

Matthew, who shops at our Jaycar Warners Bay store built:

For my Year 12 Electronics project I decided to make a fully self sufficient Remote Area Communications System for Emergency Services to use in remote locations to help improve their Radio Communications Network. Using a Jaycar 70W solar panel and 20Amp charge regulator I was able to complete this.



MINI COMMS SPEAKERS

Rectangular Communications Speaker

For use with CB's and other communication devices, this mono speaker can be mounted in any position for enhanced listening of incoming transmissions. It comes with a 3.5mm plug on a 2 metre cable and includes screws and bracket for mounting.

It incorporates an 8 ohms rectangular speaker and can handle 5 watts max.



SPECIFICATIONS	AS-3182
Frequency response	100Hz- 15kHz
Dimensions	130(W) x 80(H) x 59(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Each	AS-3182	\$21.95	\$19.75	\$17.55

4" Communication Speaker

A powerful waterproof speaker to connect to CB radios and other communication devices for clearer audio reproduction. Features a 4" (102mm) Mylar speaker, right angle 3.5mm plug on a 1.2 metre cable & includes a mounting bracket.

SPECIFICATIONS	AS-3187
Power handling	10WRMS
Power Max	15W
Impedance	8 Ohm
Freq range	300Hz - 10kHz
Sensitivity	88dB/m
Dimensions	108(L) x 108(W) x 65(D)mm



▲	Cat.	Qty 1+
10WRMS	AS-3187	\$24.95

Mini Communications Speaker

For use with CB's and other communication devices, this mono speaker is small and can be mounted in any position for ease of use. It comes with a 3.5mm plug on a 2 metre cable and includes screws and bracket for mounting. It incorporates an 8 ohms round speaker and can handle 5 Watts Max.



SPECIFICATIONS	AS-3185
Frequency response	100Hz- 15kHz.
Dimensions	98(W) x 80(H) x 57(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Each	AS-3185	\$19.95	\$17.95	\$15.95

Naval Style Comms Speaker with Gymbal Mount

This small but powerful unit delivers clear voice from either VHF, 27MHz or even HF communications receivers. It features a no-nonsense naval style in a light grey. It is very close to waterproof, in that the speaker cone is Mylar, the bezel is gasketed and the cord entry is IP65.

SPECIFICATIONS	AS-3186
Power handling	2.25WRMS
Power Max	5W
Impedance	8 Ohm
Freq range	320Hz - 4,500kHz
Sensitivity	88dB/m
Dimensions	66(L) x 66(W) x 55(H)mm
Weight	185g
2.2m cable terminated to a 3.5 plug	
Bezel dimensions	65mm square, 55 deep



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
2.25WRMS Each	AS-3186	\$19.95	\$17.95	\$15.95



For our full range of Smartphone & MP3 Player Speakers see page 370

VHF TRANSCEIVERS

When the Italian/British inventor Marconi developed wireless communications at the beginning of the last century, he envisioned radio apparatus to be so complicated that special experts had to be trained to operate it. Indeed, this was an accepted dictum and "The Marconi School of Wireless" was established in many countries to train people. It was run in Australia by AWA and it was around for many, many years.

As technology advanced, it was becoming obvious that you did not have to be a rocket scientist to operate a two-way type radio set. The American Motorola company (the inventor of the car radio) developed a two-way radio for the police. This innovation helped the police and soon other industries started clamouring for similar sets for their industries. Taxi-cabs were an early adopter of two-way radio. This improved the productivity of the taxi service enormously.

By the mid-to-late 60's two-way radios were being adopted for taxis, the fire brigade, police and other commercial users. The frequency band was split up to two sections both VHF. There was VHF low band and VHF high band. It did not really matter to the operator, however.

3W VHF Marine Waterproof Floating Transceiver

A VHF radio on a boat is a must have. You never know when your boat may be rendered inoperative by engine malfunction, a storm, rogue waves, or a monster from the deep. This transceiver will give you coverage of all international VHF marine channels so you can call for help when needed or communicate with other boats. This unit is fully submersible so if you find your boat has been capsized and you are stuck under the hull you know you'll be still be able to call for help. Includes a Li-ion rechargeable battery pack, AC adaptor, charging cradle and belt clip.

- IP67 rated
- 1/3W Switchable output power
- Backlit LCD
- Dual and triple watch function
- Channel scan function
- One-touch emergency channel 16
- Auto power saver mode
- Dimensions: 130(L) x 60(W) x 35(D)mm

It Floats



TECH TALK

Don't forget to wash the unit in fresh water if it goes for a swim!



	Cat.	Qty 1+	Qty 5+	Qty 10+
3W VHF Transceiver - Single	DC-1093	\$99.00	\$88.95	\$78.95
Spare Battery Pack	DC-1075	\$24.95	\$22.45	\$19.95



Early marine two-way radio operated on the "short wave" or High Frequency Bands. It was complicated to use but had long range. You had to dial an actual frequency and the operation required some skills. The sets were quite expensive.

Riding on the back of the CB radio boom in the mid-70's came 27MHz marine radio. It was relatively simple to use, but had limited range and was plagued with interference. A VHF marine band was gazetted earlier but popularity was limited because sets were fairly expensive.

Along came Japanese production technology from the CB boom and the price of VHF Marine radio equipment plummeted.

VHF Radios were refined, worked on FM which made them almost interference free, and used simple channel numbers rather than frequencies and only needed a minimum number of controls.

And you did not need to be trained by the Marconi School of Wireless to operate them! See 'TECH TALK' below for more info on VHF marine equipment.

5W VHF Marine Radio Transceiver

You should never head out to sea without a VHF radio. If you plan on doing a bit of sailboat racing, the club rules will probably make a VHF radio compulsory on-board equipment. This powerful 5W hand-held transceiver gives you coverage of all international VHF marine channels. Though not completely submersible, the housing is compact and splash proof, specially designed to endure the usual rigours of boating. The antenna is detachable so units can be connected to a larger antenna mounted on a boat. Includes Li-ion rechargeable battery pack, AC adaptor, charging cradle, and belt clip.

- 1W/5W switchable output power
- Backlit LCD
- Dual and triple watch function
- Channel scan function
- One-touch emergency channel 16
- Auto power saver mode

Note: The USB charging socket requires 12V, standard 5V USB power supplies will not suit.



	Cat.	Qty 1+	Qty 5+	Qty 10+
5W VHF Transceiver - Single	DC-1096	\$139.00	\$124.95	\$110.95
Accessories to Suit	Cat.	Qty 1+	Qty 5+	Qty 10+
Cigarette Lighter Charger - 1.2m	DC-1099	\$17.95	\$15.95	\$14.35
Spare Battery Pack	DC-1066	\$24.95	\$22.35	\$19.70
Speaker Mic	DC-1062	\$24.95	\$22.35	\$19.70
Leather Pouch	DC-1067	\$12.95	\$11.65	\$10.35
VOX Headset & Microphone	DC-1056	\$14.95	\$13.35	\$11.70

VHF MARINE RADIO

The VHF Marine Radio band (156 – 174MHz) has been allocated internationally for the exclusive use of two-way radio equipment with fixed technical standards for marine use. Theoretically, you can buy a VHF marine transceiver in Country A and it will work in any other country. The reality, however, is slightly different.

There are 56 channels allocated across the radio spectrum for Australia shown above, and the main emergency channel, channel 16, is the same all over the world! There is a secondary distress channel, channel 67 and it is also universal. When you operate a VHF Marine transceiver you monitor Ch. 16 (in case someone makes a distress call) and you can actually use that channel to call a colleague to contact them on the water. Once you have made contact, you immediately switch to another channel to keep Ch. 16 clear for possible emergency use.

It is wise to confer with your colleague before going out to agree on the alternative channel, say Ch. 10. Then you don't have to broadcast what that channel is to discourage people from snooping in on your conversation.

The non-emergency channel allocations may have local specific uses (such as harbour management, etc.) and this info appears in the manual that comes with the equipment when you buy it, if you buy it in Aus/NZ.

TECH TALK

RANGE: For most amateur boating operations you should get plenty of range with VHF marine. A good fixed installation (not handheld units) should give you 25km line-of-sight. Conditions vary enormously at sea, so don't depend on this. Most of the time someone will hear you and you can relay messages if necessary. Volunteer coastal stations monitor Ch. 16 generally 24 hours a day.

PRIVACY: Remember your first conversations can be heard by anyone on Ch. 16. Depending on how sophisticated your VHF unit is, you can configure it to have a private conversation with a colleague who has similarly equipment set on a non-emergency channel.

One of the best features of VHF Marine use is that you do not have to be aware of actual frequencies. You can then think just in terms of channel numbers.

Setting up when you go out. If you like, you can go straight to your nominated channel and bypass Ch. 16 as much as possible. You can arrange 'skeds' (i.e. schedules) to monitor, say Ch. 10, at 15 minute intervals, quarter to the hour, on the hour, a quarter past and half past for 2 – 3 minutes and then the rest of the time on Ch. 16.

Happy boating!

ADDICTED TO SOCIAL? WE'RE HERE TO CHAT - WHATEVER YOUR CHANNEL!



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twitter.com/jaycarau

PANASONIC

Jaycar Electronics is delighted to announce the introduction of the prestigious manufacturer Panasonic for their range of telephonic equipment in our stores.

Panasonic have proven to be a leader in cordless phone and answering machine technology for the domestic and home office marketplace. One of the frequently annoying aspects of cheap cordless phones is the unreliability of the on-hook connection and the battery recharging mechanism. It is quite common with cheap cordless phones to pick up the

Panasonic Single Cordless Telephone

A simple and compact cordless phone with easy to read 1.4" LCD screen. Recharges using the slim base.

- Caller ID
- Long standby time
- HAC (Hearing Aid Compatible) support
- Mute and Keylock

Panasonic

SPECIFICATIONS	YT-9000
Frequency	1.9GHz
Channels	10
System	DECT
Caller ID Memory	20
LCD	1.4" Amber backlit
Battery	Ni-MH (2xAAA) included
Talk time	Up to 10 hours
Standby time	Up to 200 hours
Charge time	About 7 hours
Base dimensions	87(W) x 77(H) x 59(D)mm
Handset dimensions	145(H) x 48(W) x 33(D)mm
Model	KX-TGB110ALB



1 YEAR WARRANTY

▲	Cat.	Qty 1 +
	YT-9000	\$32.95

Panasonic Cordless Telephones with Answering Machine

A large capacity battery enables a maximum talk time of 16 hours so you can talk for extended durations.



The handset can also be left for approximately 8 days without charging. Communications between the cordless handset and base unit are encrypted, and the encryption password is periodically changed to maintain a high level of security. A noise reduction function and large speaker enables recorded messages to be clearly played back. When you want to search for the family and you don't know where they are in the house, you can make an intercom call to all handsets. This lets you find whoever you are looking for without having to run all over the house.

- DECT with security encryption mode
- Answering system sound
- Power back-up operation
- Baby monitor
- Do not disturb mode
- Intercom all

Panasonic

SPECIFICATIONS	BOTH
Frequency	1.9GHz
Channels	120
System	DECT 6.0 with security encryption mode
Caller ID Memory	50
LCD	1.8" Backlit
Battery	2 x AAA Ni-MH each (included)
Multiple Handset Capability	Up to 6
Talk time	Up to 16 hours
Standby time	Over 8 days
Charge time	About 7 hours
Base dimensions	109(W) x 108(H) x 85(D)mm
Handset dimensions	165(H) x 48(W) x 34(D)mm
Model	YT-9002 - KX-TGD320ALB, YT-9004 - KX-TDG322ALB YT-9006 - KX-TDG323ALB

1 YEAR WARRANTY

▲	Cat.	Qty 1 +
Single Handset	YT-9002	\$59.95
Twin Handset	YT-9004	\$79.95
Triple Handset	YT-9006	\$99.95

phone to answer a call only to find that the internal battery is flat because the last user failed to notice that the phone had not started recharging.

Panasonic

The outstanding quality of the Panasonic product almost eliminates this vexing issue. Jaycar has selected a core range of Panasonic product for 2017. We are excited by this development and look forward to growing the range in the years to come.



Panasonic Corded/Cordless Telephone with Mobile Link

The black-metallic Panasonic system makes communication more versatile for home and home office.

NEW 2017



YT-9016

Link2Cell® syncs up to two smartphones to make and take cell calls from handsets, and a downloadable Android App alerts you when your cell receives email, updates from social media and more. More features include one-touch cell phone pairing, a tilt-up 3.4" LCD, three speed dials, talking caller ID, baby monitor, 3,000 number phonebook transfer, noise reduction, power backup and a Bluetooth® headset.

- Link to mobile
- DECT with security encryption mode
- Answering system sound
- Baby monitor
- Do not disturb mode
- Intercom all

Due May 2017

Panasonic

SPECIFICATIONS	BOTH
Frequency	1.9GHz
Channels	120
System	DECT 6.0 with security encryption mode
Caller ID Memory	50
LCD	1.8" Backlit Handset / 3.4" (Base)
Battery	2 x AAA Ni-MH each (included)
Multiple Handset Capability	Up to 6
Talk time	Up to 17 hours
Standby time	Over 13 days
Charge time	About 7 hours
Base dimensions	222(W) x 163(H) x 103(D)mm
Handset dimensions	168(H) x 48(W) x 30(D)mm
Model	YT-9014 - KX-TGF380AZM YT-9016 - KX-TGF382AZM YT-9018 - KX-TGF384AZM

Bluetooth®

1 YEAR WARRANTY

▲	Cat.	Qty 1 +
1 x Corded & 1 x Cordless Phone	YT-9014	\$169.00
1 x Corded & 2 x Cordless Phones	YT-9016	\$199.00
Spare Handset	YT-9018	\$84.95

PANASONIC (CONTINUED)

Panasonic Cordless Telephones with Bluetooth® Mobile Link and DECT Repeater**NEW
2017**

This new system from Panasonic is loaded with features, and is perfect for large homes or small offices. Firstly, it is supplied with a DECT repeater to double the distance from the base station, giving you more flexibility to move around your home or office and even the back yard or garage.

Link up to two phones via Bluetooth® and you'll be able to make or receive calls from your mobile using the Panasonic handsets. This saves you having to carry your phone around with you in your pocket while you're home. There is even a USB port on the base station to charge your mobile phone using your appropriate USB charging lead.

The advanced answering machine can store up to 18 minutes of recordings. The base station will alert you with a sound when you're at home that a new message is recorded. If you're away, the base station can be programmed to call your pre-registered mobile or office phone, and play the message to you.

If your caller is calling from a noisy location, you can hear them clearer by simply pressing the noise suppression button. This suppresses the background noise and enhance their voice simultaneously.

- Power failure backup
- Talking caller ID
- Incoming call block
- Night mode
- Intelligent ECO mode
- Answering system (18 mins)
- Intercom



YT-9010

Panasonic

Due May 2017

SPECIFICATIONS	BOTH
Frequency	1.9GHz
Channels	120
System	DECT 6.0
Caller ID Memory	50
LCD	1.8" Backlit Handset / 2.5" (Base)
Battery	2 x AAA Ni-MH each (included)
Multiple Handset Capability	Up to 6
Talk time	Up to 10 hours
Standby time	Up to 7 days
Charge time	About 7 hours
Base dimensions	178(W) x 115(H) x 101(D)mm
Handset dimensions	168(H) x 39(W) x 31(D)mm
Model	YT-9010 - KX-TG7882AZS, YT-9012 - KX-TG7883AZS

**1
YEAR
WARRANTY**

	Cat.	Qty 1+
Twin Handset	YT-9010	\$159.00
Triple Handset	YT-9012	\$189.00

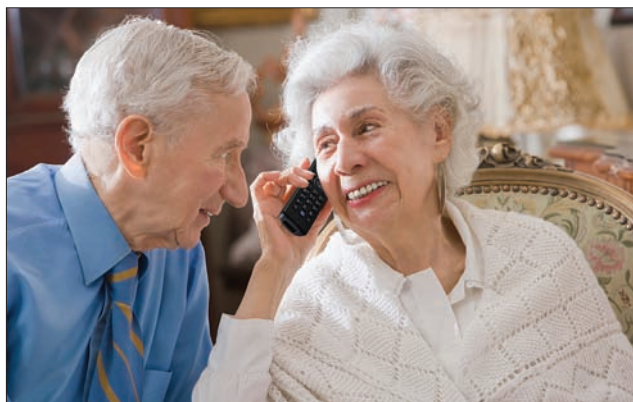
TELEPHONE ACCESSORIES**Telephone Extension Ringer**

This can be used to increase the volume of your existing landline phone or to relocate the ringer into a different room or location. It is ideal for industrial environments where background noise can mask the sound of your ringing telephone. Includes mounting screws.

- Wall mountable with On/Off switch
- Multiple tone and pitch selection
- Volume control
- Multiple input types
- 8-12 ohm output for horn speaker
- No battery or external power required
- Dimensions: 155(H) x 90(W) x 30(D)mm

**1
YEAR
WARRANTY**

	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6068	\$29.95	\$26.95	\$23.70

**Panasonic Hearing Impaired Cordless Telephone****NEW
2017**

Panasonic Amplified Cordless Phone with Answering Machine Designed for anyone affected by mild to moderate hearing loss. Features an amplified volume boost to help you hear and be heard, loud and clear.

The one-touch slow talk mode allows you to understand quick-talking callers by automatically slowing the speed of the speech while conversing in real time. Block up to 250 unwanted numbers to avoid nuisance callers.

- 40dB (2X) voice volume & speech booster
- Slow Talk
- Large memory dial buttons
- Bright Red Ringer LED
- Large backlit keypad
- Answering machine with battery backup
- Nuisance call block
- Built-in Ni-MH AAA batteries for up to 4 hours backup time

**1
YEAR
WARRANTY****Panasonic**

SPECIFICATIONS	YT-9008
Channels	120
Screen	1.8"
Freq. range	1.9GHz
System	DECT 6.0
Handset	189(L) x 58(W) x 43(D)mm
Base	178(L) x 141(W) x 72(H)mm
Model number	KX-TGM420AZB

	Cat.	Qty 1+
	YT-9008	\$129.00

WHAT IS DECT?**TECH TALK**

DECT originally stood for Digital European Cordless Telephone but changed to Digital Enhanced Cordless Telecommunications when the technology included data services and sold in other parts of the world. DECT is a radio technology commonly used for cordless phones in homes and offices. Originally, DECT used the 1.88GHz to 1.90GHz band but now uses the 1.92GHz to 1.93GHz band (DECT 6.0) to avoid interference from other wireless devices and networks.

Telephone Isolation On Hold Kit

A simple and affordable telephone line isolation unit that can be used as the basis of a telephone music on-hold adaptor.

Suitable for even the smallest business, use it to customise the on-hold music that your clients listen to. Accepts input via 3.5mm headphone socket, so it will work fine with any MP3 player.

Also includes an RCA adaptor for use with other sound sources.

- Dimensions: 75(H) x 28(W) x 219(D)mm

**1
YEAR
WARRANTY**

	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6070	\$29.95	\$26.95	\$23.70

LINE FILTERS & ADAPTORS

ADSL2+/VDSL2+ In-Line Filter

If you have an ADSL2+ or VDSL2+ Internet connection, you'll need a compatible filter to keep unwanted noise from the phone or fax line. ADSL filters are not suitable as they don't allow the 2.2MHz bandwidth required for ADSL2+ and you won't get the full speed of your connection. Three different types available, a single in-line filter for use with extra phones or fax line, a filter/splitter for use with the primary line with the modem and phone line connected to it and a central filter for use when an alarm dialler or large number of phone outlets exist. Complies with ACIF S041.

ADSL2+/VDSL2+ IN-LINE FILTER:

Cat. YT-6091 (NOT AVAILABLE IN NEW ZEALAND)

ADSL2+/VDSL2+ FILTER/SPLITTER:

Cat. YT-6093 (NOT AVAILABLE IN NEW ZEALAND)

ADSL2+/VDSL2+ CENTRAL FILTER:

Cat. YT-6099 (NOT AVAILABLE IN NEW ZEALAND)



YT-6091



YT-6093



YT-6099

	Cat.	Qty 1+	Qty 5+	Qty 20+
ADSL2+/VDSL2+ In-Line Filter	YT-6091	\$16.95	\$14.95	\$13.35
ADSL2+/VDSL2+ Filter/Splitter	YT-6093	\$19.95	\$17.95	\$15.95
ADSL2+/VDSL2+ Central Filter	YT-6099	\$29.95	\$26.95	\$23.95

ADSL2+ Filter Wall Plate

Ideal for wall-hanging land-line handsets. It provides a front-facing filtered phone port, as well as another on the side. An unfiltered port is also provided for your modem connection.

- Compatible: ADSL, ADSL2, ADSL2+, VDSL2
- Dimensions: 77(W) x 115(H) x 22(D)mm



NEW
2017

1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6078	\$24.95	\$22.45	\$19.95

WHAT IS ADSL & VDSL?

TECH TALK

ADSL stands for Asymmetric Digital Subscriber Line. It is a technology that allows data to be sent at high speeds across copper phone lines rather than conventional voice-band modems. ADSL2+ provides double the downstream rate compared to ADSL, from 12Mbps to 24Mbps. Data speed is dependent on the distance between the user's modem to the DSLAM (Digital Subscriber Line Access Multiplexer), usually located at the local telecom exchange.

VDSL stands for Very-high-bit-rate Digital Subscriber Line, which provides a faster data transmission than ADSL. VDSL is able to support applications like HDTV and VOIP (Voice over IP), and able to downstream data up to 100Mbps (or 300Mbps using VDSL VPlus).

Look for our Modular Crimp Tool with Network/PoE Tester on page 391.

Cat5 UTP Splitter

Cat5 splitters enable two different devices to share the same Cat5 cable. They are usually used in pairs, one at each outlet. Note: you can't use this device to run two computers from one network port; you'll need a network switch for that. This product is unsuitable for gigabit networks.



	Cat.	Qty 1+	Qty 4+	Qty 10+
	YT-6090	\$16.95	\$14.95	\$13.35

Modular Double Adaptor - RJ12

Connect two telephones to the one socket.

- 6P/4C



	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6056	\$5.95	\$5.25	\$4.75

Modular Double Adaptor - RJ45

RJ45 8P/8C plug to two sockets. Wired straight through - pin #1 to pin #1.



	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6082	\$11.95	\$10.70	\$9.50

Modular Triple Adaptor RJ12 6P/4C

RJ12 plug to 3 sockets.



	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6057	\$12.95	\$11.35	\$10.35

605 to 610/RJ12 Telephone Double Adaptor

Telephone double adaptor with both 610 and RJ12 6P/4C output sockets.



	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6028	\$6.95	\$6.25	\$5.55

Plug Adaptor 605 Type

Australian plug to RJ12 6P/4C or RJ45 8P/4C US socket.

- Includes reducing sleeve.



Note: Not available in New Zealand

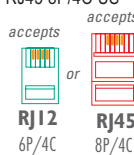


	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6054	\$5.95	\$5.25	\$4.75

Socket Adaptor 610 Type

Australian socket to RJ12 6P/4C or RJ45 8P/4C US socket. Includes reducing sleeve.

Note: Not available in New Zealand



	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6052	\$6.95	\$6.25	\$5.50

Double Adaptor

Australian plug to two RJ12 6P/4C US sockets.

- Slimline package



Note: Not available in New Zealand

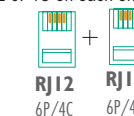


	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6023	\$6.95	\$6.25	\$5.50

US Plug to Australian Plug

Includes Australian plug with RJ12 6P/4C socket in back and 2 metre lead with a RJ12 6P/4C on each end.

Note: Not available in New Zealand



	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6045	\$6.95	\$6.25	\$5.50

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

RJ11/12 MODULAR

50µ" Gold Contact
**4 PIN FOR
 STRANDED CABLE**
 4/4 - RJ11



ACMA Approved



**6 PIN FOR
 STRANDED CABLE**
 6/6 - RJ12



ACMA Approved



RJ11		Qty 1+	Qty 5+	Qty 20+
Pkt 5	PP-1430	\$2.45	\$2.15	\$1.95
RJ11				
Pkt 50	PP-1431	\$19.95	\$17.95	\$15.95
RJ12				
Pkt 5	PP-1432	\$2.95	\$2.60	\$2.30
Pkt 50	PP-1433	\$23.95	\$21.35	\$18.95

Australian / NZ Flush Wallplates

Our premium Australian / NZ flush plates not only accept our Cat 5e jacks shown below, they are also compatible with many other standard Australian mechanisms and jacks. The 2 piece design has a separate back plate and cover which is easily removed for painting.

- Fits standard Australian/NZ electrical switch plate installation hardware and screw centres.
- Perfect for easy flush installation on Gyprock walls.
- Supplied unloaded without jacks (see cat. YN-8036).
- Dimensions 116(W) x 75(H) x 13(D)mm.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Single	YN-8015	\$5.95	\$5.25	\$4.75
Double	YN-8016	\$5.95	\$5.25	\$4.75
Triple	YN-8017	\$5.95	\$5.25	\$4.75

Keystone Wallplates

Flush type wall plates to accept our standard keystone 110 jacks. Fits standard Australian electrical switch plate installation hardware and screw centres, making it perfect for easy flush installation on plasterboard or other cavity walls.

- Supplied unloaded without keystone jacks
- Dimensions 70(W) x 114(H) x 6(D)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Single White	YN-8050	\$1.75	\$1.55	\$1.40
Double White	YN-8052	\$1.75	\$1.55	\$1.40
Triple White	YN-8054	\$1.75	\$1.55	\$1.40
Quad White	YN-8056	\$1.75	\$1.55	\$1.40
6 Way White	YN-8058	\$1.75	\$1.55	\$1.40

RJ11 Socket 6P4C
Keystone Jack

RJ11 Socket 6P4C
 Keystone Jack



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	YN-8026	\$3.95	\$3.55	\$3.15

RJ45 MODULAR

Modular Plugs

50µ" Gold Contact
8/8 - RJ45
 • Not ACMA approved



ACMA Approved



Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP-1436	\$7.95	\$6.95	\$6.25

SCREENED 8 PIN FOR STRANDED CABLE

8P8C with full screening and round cable entry for connection to STP cable.



ACMA Approved



Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
10	PP-1437	\$14.95	\$13.35	\$11.70

**RJ45 MODULAR PLUGS FOR
 STRANDED/SOLID CAT 6 CABLE PK10**
 RJ45 Modular Plugs for Stranded and Solid Cat 6 Cable. Pack of 10



ACMA Approved



RJ45 STRANDED		Qty 1+	Qty 5+	Qty 20+
Pkt 10	PP-1447	\$13.95	\$12.35	\$10.95

**8 PIN FOR FLAT
 STRANDED CABLE**
 8/8 - RJ45



ACMA Approved



**8 PIN FOR
 ROUND SOLID CORE
 CABLE**
 8/8 RJ45 Suits Cat5e



ACMA Approved



RJ45 STRANDED		Qty 1+	Qty 5+	Qty 20+
Pkt 5	PP-1434	\$5.95	\$5.25	\$4.75
RJ45 STRANDED				
Pkt 50	PP-1435	\$29.95	\$26.95	\$23.95
RJ45 SOLID				
Pkt 6	PP-1438	\$6.95	\$6.25	\$5.50
RJ45 SOLID				
Pkt 50	PP-1439	\$34.95	\$31.45	\$27.90

RJ45 BOOTS

A packet of boots to suit RJ45 8/8 plugs.



Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
4	PM-1441	\$4.95	\$4.45	\$4.15
Pkt	Cat.	Qty 1+	Qty 5+	Qty 20+
50 Blue	PM-1442	\$15.95	\$14.35	\$12.75

RJ45 IP67 Rated Connectors

These RJ45 connectors are designed for use in harsh environments. Rated to IP67 dust and water tight making them handy for control and communications applications located outdoors or in industry workshops.

**RUGGED RJ45 PLUG -
 IP67 RATED**
 PP-1453



**RUGGED RJ45 SOCKET -
 IP67 RATED**
 PS-1451



WATERPROOF CAP

Waterproof cap to suit PS-1451 IP67 RJ45 socket.
 PP-1455



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug	PP-1453	\$14.95	\$13.45	\$11.95
Socket	PS-1451	\$19.95	\$17.95	\$15.70
Cap	PP-1455	\$9.95	\$8.75	\$7.75

Keystone Socket Jacks

RJ45 Socket CAT5e Keystone Jack

YN-8028

RJ45 Socket Cat6

Keystone Jack

YN-8029



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Cat5e	YN-8028	\$3.95	\$3.55	\$3.15
Cat6	YN-8029	\$3.95	\$3.55	\$3.15

RJ45 Cat6 Keystone
Socket - White

RJ45 Cat 6 Keystone
 Socket - white.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8033	\$11.95	\$10.70	\$9.50

RJ12 IDC Socket for Flush Plates

Voice grade RJ12 6P4C IDC jack with 2 IDC connections per contact allowing easy loop-in, loop-out for typical voice applications. Compatible with most standard Australian flush plates. Rear termination with IDC impact tool.



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
	YN-8035	\$9.95	\$8.75	\$7.75

Cat5e IDC Jack to Suit Aust / NZ Style Flush Plates

Our premium Cat 5e IDC data jack is designed to suit our wallplates shown above. They also suit many other brands of Australian/NZ flush plates.

- Rear terminated with 110 or Krone impact tool
- T568A & T568B colour coding for easy installation
- ACMA Approved
- Suits our YN-8015/16/17 wallplates



ACMA Approved

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8036	\$9.95	\$8.75	\$7.75

RJ45 Cat5e IDC
Keystone Jack - Pk 6

This pack of 6 Cat5e keystone jacks are designed to suit standard Australian & New Zealand wall plates.

- Rear terminated with 110 or Krone impact tool
- T568A & T568B colour coding for easy installation
- ACMA approved
- Suits YN-8015/6/7 wall plates



ACMA Approved

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8039	\$39.95	\$35.90	\$31.90

RJ45 Cat6 Tool-less
Keystone Jack

This Cat6 keystone jack allows you to connect Ethernet cable without the need of crimping tools.

- Installation is quick and easy



Note: Product may vary to one shown

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8038	\$16.95	\$14.95	\$13.35

Keystone Surface Box

Side entry surface mount boxes to accept our standard keystone 110 jacks.

- Snap-on cover for easy installation & access to wiring.
- Single and duplex versions available.
- Double sided tape for easy installation.
- Supplied unloaded without keystone jacks.
- Colour is white.



ACMA Approved



▲	WxHxD(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
Single	30x60x26	YN-8022	\$5.95	\$5.25	\$4.75
Double	55x60x26	YN-8024	\$5.95	\$5.25	\$4.75

110 Keystone Jack

Suitable for use with our keystone wall plates and keystone surface boxes.

- For termination with ISBY impact tool and has combined 568A and T568B colour coding for easy installation.
- White in colour.



ACMA Approved

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8030	\$9.95	\$8.75	\$7.75

RJ45 MODULAR (CONTINUED)

Cat5e Coupler 8P/8C

Enables pre-made cables to be used. Simply clip into a wall plate and plug cables in on both sides.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8032	\$19.95	\$17.95	\$15.95

Cat5e Socket Coupler Straight

Use this jack connector to join two fabricated Cat 5e cables.

- Straight through



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8034	\$16.95	\$14.95	\$13.35

Cat6 RJ45 Inline Coupler

Use this coupler to join two fabricated Cat6 cables.

- Wired straight through



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8037	\$19.95	\$17.95	\$15.95

US Modular Inline Coupler Socket To Socket 6P/4C

Connect two US plugs together.



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6060	\$5.95	\$5.25	\$4.75

Modular Inline Joiner RJ45 8P/8C

RJ45 8P/8C socket to socket. Wired straight through. Pin #1 to pin #1.

Note: Not suitable for Ethernet connections.



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6080	\$4.95	\$4.45	\$3.90

Modular Inline Joiner RJ45 8P/8C Crossover

RJ45 8P/8C socket to socket. Wired in crossover format. Pin #1 to pin #8.

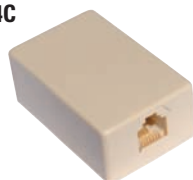
Note: Not suitable for Ethernet connections.



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6081	\$5.95	\$5.25	\$4.75

US Modular Skirting Mount Wall Socket RJ12 6P/4C

US type wall socket. Suitable for all telephones.



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6058	\$6.50	\$5.75	\$4.95

DB9 Socket to RJ45

Socket adaptor. Can be wired without soldering.

- Unwired



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-0906	\$5.95	\$5.25	\$4.75

DB25 Plug to RJ45 8P/8C Socket Adaptor

Unwired. Can be wired without soldering.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-0904	\$7.95	\$6.95	\$6.25

Wall Socket - 6P/4C

Square wall socket to suit RJ12 6P/4C plugs. Screw terminals for connection.

- 44 x 44 x 24(D)mm.



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6059	\$5.95	\$5.25	\$4.75

RJ45 Side Entry Surface Mount - 8P/8C

Side entry surface mount voice grade US modular socket. Snap-on cover provides access to screw terminals for connection of wires. Double sided tape included for easy installation.

- 50(W) x 57(H) x 20(D)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6064	\$6.50	\$5.75	\$4.95

RJ45 to RJ12 Reducers

Reduce a RJ45 size socket to a RJ12 size.

This allows RJ45 sockets to accept either RJ12 or RJ45 plugs. Pack of 5.

▲	Cat.	Qty 1+	Qty 5+	Qty 20+
	Pkt 5 YT-6055	\$4.95	\$4.45	\$3.90

Wall Phone Bracket RJ12 6P/4C

Wall phone bracket designed to allow easy installation of telephones which have standard US modular wall mountings. The line is connected from bracket to phone by a 30mm modular cord.

- Fits standard Australian electrical switch plate installation hardware.
- 76W x 119H x 9Dmm

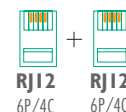


▲	Cat.	Qty 1+	Qty 5+	Qty 20+
	YT-6062	\$7.95	\$6.95	\$6.25

Extension Cables RJ12 6P/4C

RJ12 6P/4C US Modular Plugs US plug to US plug.

- Colour Ivory.

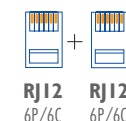


▲	Cat.	Qty 1+	Qty 5+	Qty 20+
300mm	YT-6044	\$3.95	\$3.45	\$3.15
1.0m	YT-6042	\$4.95	\$4.45	\$3.90
3.0m	YT-6040	\$5.95	\$5.25	\$4.75
5.0m	YT-6049	\$7.95	\$6.95	\$6.25
10.0m	YT-6041	\$11.95	\$10.70	\$9.50
15.0m	YT-6043	\$14.95	\$13.35	\$11.70

Extension Cables RJ12 6P/6C

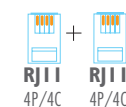
Used in many office telephone Commander type systems, where 6 wires are required. Plug to plug.

- RJ12 6P/6C US Modular Plugs
- Colour Ivory.



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
1.0m	YT-6033	\$9.95	\$8.75	\$7.75
3.0m	YT-6036	\$11.95	\$10.70	\$9.50
5.0m	YT-6034	\$12.95	\$11.35	\$10.35
10.0m	YT-6037	\$13.95	\$12.35	\$10.95
15.0m	YT-6038	\$16.95	\$14.95	\$13.35

Replacement Handset Curly Cord 4P/4C US MODULAR PLUGS



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
3.0m White	YT-6047	\$8.95	\$7.95	\$6.95

RJ12 to RJ45 Modular Leads

RJ12 6P/4C to RJ45 8P/4C

Colour: Ivory.



▲	Cat.	Qty 1+	Qty 5+	Qty 20+
2.0m	YT-6086	\$8.95	\$7.95	\$6.95
3.0m	YT-6087	\$12.95	\$11.35	\$10.35

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'.
Conditions apply:
See page 528 for details.

Computer & Multimedia.



COMPUTER ACCESSORIES

ADSL Modem	386
Card Readers	402
Converters & Adaptors	394
Hubs	401
Laptop & Power Supplies	406
Leads & Adaptors	391

Media	403
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Monitor Brackets	398
Networking/Wireless	389
Rack Cabinets & Accessories	407
Storage, Docking & HDD	403

USB Adaptors & Converters	394
USB Type-C Technology	393
Uninterruptible Power	407
Webcams	399

MODEM ROUTERS

N300 Wireless ADSL2+ Modem Router

A high performance router that provides full ADSL2+ capability and superb reliability as a cost-effective networking solution for the home. Allows up to 4 wireless SSIDs which would let you create wireless nodes with varying permission levels such as a guest network that has limited access. WPS setup is standard giving extremely quick setup for your Tablets or Smartphones. A broad set of customisable security features are at your disposal including a firewall and QoS to maintain reliable traffic flow through the network as well as MAC address filtering and much more. 4 x 10/100Mbps

RJ-45 ports are featured and a USB socket for attaching a USB HDD or flash drive so files can be shared over the network with extreme ease. The intuitive user management interface provides a myriad of options to have your router humming to your needs.

General Features:

- Complies with ADSL2+ standards with downstream and upstream data rates up to 24Mbps and 1Mbps
- Wi-Fi 802.11b/g/n compatible
- 4 x 10/100Mbps RJ-45 Ethernet ports
- Features WEP & WPA2 encryption and a hardware WPS button
- Supports UPnP, IP/MAC filtering, DMZ and virtual server

Wireless Features:

- 802.11b/g/n compatibility
- Wireless security: 64-bit, 128-bit, WEP, AES, TKIP, WPA, WPA2
- Wireless Protected Setup

Security Features:

- Firewall
- MAC address filtering
- QoS
- Anti-DoS
- Anti-port scanning
- URL filtering

Network features:

- ADSL2+ Standard: Annex A/M
- DHCP server and DHCP relay
- Bridge uplink
- VLAN at WAN end
- NAT and NAPT
- VLAN and port binding

Included accessories:

- RJ-45 Cable
- ADSL Splitter
- RJ-11 cable
- Power supply
- Spare antenna

Configuration Management:

- Web based interface
- Telnet and SSH
- Two tiered user management Including admin & diagnostics user

Limited Stock

System Specifications:

- Chipset: BCM6318+BCM43217+BCM6301
- DDR SDRAM: 32MB DDR
- Serial Flash: 4MB / 8MB



	Cat.	Qty 1+	Qty 4+	Qty 10+
N300 with USB Sharing	YN-8342	\$59.95	\$53.95	\$47.95

N300 Wi-Fi Router with Modem & USB Sharing

Provides reliable networking and internet connection. Dual wireless antennas produce strong range, while four 10/100 ethernet ports provide wired functionality too. A convenient feature is the USB port for sharing storage on your network, with extremely simple setup. The built-in ADSL 2+ modem means you don't need a dedicated modem in addition to a router, minimising devices required to get connected.

Due July 2017

Product may vary to the one shown

NOT AVAILABLE IN NEW ZEALAND

SPECIFICATIONS	YN-8344
Interface	4 x 10/100Mbps LAN Ports, 1 x Telephone Port
Power	5VDC @ 0.5A (Mains Adaptor Included)
Antennas	Dual 5dBi Omni Directional
Wireless Standards	IEEE 802.3, 802.3u, 802.11n/g/b
Frequency Range	2.4GHz
Signal Rate	11N: Up to 300Mbps (dynamic)
Wireless Security	64/128-bit WEP encryption security and wireless LAN ACL (Access Control List)
Dimensions	132(W) x 94(D) x 27(H)mm (Excluding Antennas)



WAVLINK®



	Cat.	Qty 1+	Qty 4+	Qty 10+
N300	YN-8344	\$69.95	\$62.95	\$55.95

AC1200 Wi-Fi Router & ADSL2+/VDSL2+ Modem

Provisioning a new home or small office network doesn't come much simpler. By combining requirements for ADSL2+ and VDSL2+ connections with an ultra-fast Wi-Fi router, this unit takes the hassle out of sharing internet in your home or office. Dual high-gain antennas help maximise the Wi-Fi range with high speed 802.11ac - the latest in high speed wireless technology. Four 10/100Mbps ethernet ports are included for your wired connections (or expansion to a network switch), with all the usual features such as DHCP to make network setup a breeze.

Due September 2017

Product may vary to the one shown

SPECIFICATIONS	YN-8346
Interface	4 x 10/100Mbps LAN Ports, 1 x Telephone Port
Power	5VDC @ 1.5A (Mains Adaptor Included)
Antennas	Dual 5dBi Omni Directional
Wireless Standards	IEEE 802.11ac/n/g/b
Frequency Range	2.4GHz & 5GHz
Signal Rate	11ac: Up to 867Mbps, 11n: Up to 300Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64/128-bit WEP/WPA/WPA2/WPA-PSK/WPA2-PSK
Dimensions	209(W) x 153(D) x 34(H)mm (Excluding Antennas)



WAVLINK®

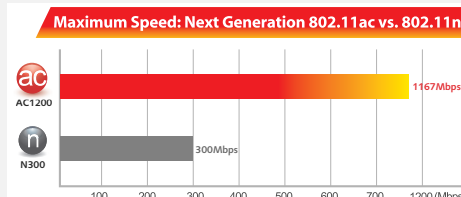


	Cat.	Qty 1+	Qty 4+	Qty 10+
AC1200	YN-8346	\$199.00	\$179.00	\$159.00

SUPERCHARGE YOUR WI-FI WITH 802.11AC!

TECH TALK

- More speed: Up to 6 times faster, to stream multiple high quality videos simultaneously
- More capacity: Up to 3 times the capacity, so that your Wi-Fi can handle more users, more devices, more high quality video streaming and larger downloads
- More coverage: Better speeds and reliability, at greater distances from your Wi-Fi access point so you can stay connected in more places
- More battery life: Transfers data faster, so your devices use less power and last longer between charges



ROUTERS

N300 Wireless Broadband Router

Sharing your internet connection and networking your computers is made easy. It provides powerful 300Mbps wireless connectivity, as well as four wired ethernet ports. Dual antennas help boost signal strength and reduce dead-spots, while WPS provides hassle-free connection. The WAN port provides PPPoE, Dynamic and Static IP broadband support functions. It's also NBN compatible to provide smooth streaming of your favourite content. Easy to setup and configure, but still provides some advanced firewall configurations too, this is a great compact unit for the home or small office.

Due May 2017

SPECIFICATIONS	YN-8390
Interface	4 x 10/100Mbps LAN Ports, 1 x 10/100Mbps WAN Port
Power	5VDC
Antennas	5dBi Omni Directional
Wireless Standards	IEEE 802.11n/g/b
Frequency Range	2.4GHz
Signal Rate	11n: Up to 300Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64/128/152-bit WEP/WPA/WPA2/WPA-PSK/WPA2-PSK
Dimensions	145(W) x 24(H) x 92(D)mm (Excluding Antennas)

WAVLINK®



NEW 2017

NBN Ready

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
N300	YN-8390	\$49.95	\$44.95	\$39.95

Wireless AC750 Dual Band Router

Take advantage of the latest in wireless technology with this 3-in-1 802.11ac router which boasts Wi-Fi speeds of up to 733Mbps. This allows you to stream HD movies over Wi-Fi, transfer large files quicker using the 5GHz band or the option of 2.4GHz for general internet browsing. It can function as a router, access point or a Wi-Fi range extender and these modes can be switched over with one click. Features WPS for quick Wi-Fi connection on Smartphones, Tablets and laptops as well as Smart IQ setup which will get you up and running without needing to cycle through a myriad of technical settings. Multiple SSIDs can be operated (up to 4) enabling wireless hotspots with different access permissions, eg guest and admin. There is one RJ-45 10/100 WAN port for sharing the internet from a modem and 4 x 10/100 ports for wired devices on the network.

SPECIFICATIONS:

- 1 x 10/100Mbps RJ-45 WAN port
- 4 x 10/100Mbps RJ-45 LAN ports
- Dimensions: 190(L) x 141(W) x 42(H)mm

WIRELESS FEATURES:

- 802.11ac/b/g/n compatible
- Speeds up to 433Mbps on 5GHz band
- Speeds up to 300Mbps in 2.4GHz band
- Multiple SSIDs enables users to configure up to four separate SSIDs
- 2 x 2.4GHz 5dBi antennas and 1 x 5GHz 5dBi antenna

SECURITY FEATURES:

- 64/128-bit WEP encryption, WPA and WPA2 security
- QoS for critical operations
- SPI anti-DoS firewall

INCLUDED ACCESSORIES:

- 5VDC power supply
- 1 x Cat 5 cable

CONFIGURATION MANAGEMENT:

- Supports remote management
- System status and security log
- Firmware upgradeable
- Smart IQ Setup, no CD required
- Supports Smartphone, Tablet or laptop setup

iPhone® not included



Easy Smartphone IQ setup



Dual Band

NEW LOW PRICE



NBN Ready

Limited Stock

3 YEAR WARRANTY

NETWORK FEATURES:

- IGMP proxy and IGMP snooping
- DDNS and DHCP
- Port triggering
- Virtual server and DMZ hosting

- MAC/IP filter and URL blocking
- QoS for smart bandwidth management
- Static routing
- UPnP architecture
- VPN pass-through (IPSec/PPTP)

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
AC750 Dual Band	YN-8329	\$99.95	\$89.95	\$79.95

AC1200 Smart Wi-Fi Router

Featuring the latest 802.11AC wireless standards for solid streaming, fast gaming, and interrupt-free networking. A stunning aesthetic design meets core functionality with the use of four 5dBi high performance antennas (two for each band), for better connectivity and greater range. It also provides a USB port for centralised storage and network sharing of data. Management is simplified with the use of a Smart App, so you can manage your network anytime. Dual 2.4G and 5G frequencies to support the latest high speed devices without forgetting about legacy devices either. Two 10/100 LAN ports are also provided for wired connectivity or expansion to another network switch. It provides a WAN interface with PPPoE and most other broadband protocols, so it's suitable for NBN connections too.

Due May 2017

SPECIFICATIONS	YN-8392
Interface	4 x 10/100Mbps LAN Ports, 1 x 10/100Mbps WAN Port, 1 x USB2.0 Storage Port
Power	5VDC @ 2A (Mains Adaptor Included)
Antennas	2 x Dual 5dBi Omni Directional (2 per frequency band)
Wireless Standards	IEEE 802.11ac/n/g/b
Frequency Range	2.4GHz & 5GHz
Signal Rate	11ac: Up to 867Mbps, 11n: Up to 300Mbps, 11g: Up to 54Mbps, 11b: Up to 11Mbps
Wireless Security	64/128-bit WEP/WPA/WPA2/WPA-PSK/WPA2-PSK
Dimensions	195(W) x 31(H) x 169(D)mm (Excluding Antennas)

WAVLINK®



Dual Band



NEW 2017

NBN Ready

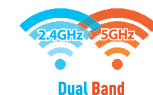
1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
AC1200 Dual Band	YN-8392	\$99.95	\$89.95	\$79.95

AC600 Outdoor Wi-Fi Extender with PoE

The perfect Wi-Fi companion for your entertaining area, a carpark, or any other outdoor scenario. Provide it a single PoE ethernet connection and it provides you with dual-band Wi-Fi access. Supporting 2.4G and 5G bands, for up to 433Mbps speeds. It acts as a Wi-Fi repeater, access point, or router, and two large antennas (one for each band) help further maximise range. Bundled into a weatherproof outdoor case, it's durable too.

- Single PoE connection
- Dual band Wi-Fi
- 155Mbps @ 2.4GHz / 433Mbps @ 5GHz Max Speed
- Weatherproof
- Weight: 181g
- Dimensions: 55(W) x 430(H) x 55(D)mm (Including Antennas)



Due June 2017

WAVLINK®



White shown - stock supplied is black.

NEW 2017

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
AC600	YN-8349	\$119.00	\$107.00	\$95.00

RANGE EXTENDERS

N300 Wi-Fi Range Extender

This intelligent Wi-Fi device can handle it all. Use it as a repeater to extend the range of your existing Wi-Fi network, provides a Wi-Fi access point for your wired network, or even acts as a router for your existing modem. It connects straight into your mains power outlet for no fuss installation, and configuration is quick and painless (with ultra-simple WPS connectivity supported too). Suitable for 802.11b/g/n standards up to 300Mbps, supporting modern standards for security too. It also features integrated status LEDs for signal strength, as well as quick reference of network status.



NEW 2017

SPECIFICATIONS	YN-8370
Operating Frequency	2.4GHz
Wi-Fi Standards	802.11b / g / n
Range	Up to 100m
Security Support	64/128/152-bit WEP, WPA-PSK, WPA-2-PSK, WPA/WPA2
Power Usage	240VAC @ 0.1A / 3.5W Max



WAVLINK®

1 YEAR WARRANTY

▲	N300	Cat.	Qty 1+	Qty 4+	Qty 10+
		YN-8370	\$59.95	\$53.95	\$47.95

AC1200 Dual Band Wi-Fi Range Extender

Quickly and simply eliminate dead-spots in your Wi-Fi network, or provide an access point on your existing wired network. It plugs straight into an available mains power point for compact, set and forget use. Dual band operation on 2.4GHz and 5GHz networks for maximum device compatibility. Simple setup and configuration makes it an easy task to tackle at home, but it's still powerful enough for the IT department at the office too.



NEW 2017

SPECIFICATIONS	YN-8372
Wi-Fi Bands	2.4GHz & 5GHz
Operation Modes	Access Point, Repeater, Router



Dual-Band

1 YEAR WARRANTY

▲	AC1200	Dual Band	Cat.	Qty 1+	Qty 4+	Qty 10+
			YN-8372	\$99.95	\$89.95	\$79.95

POWER OVER ETHERNET

PoE 12VDC Power Splitter

What if your device doesn't support PoE, but your network switch provides the functionality? This device splits the PoE into a regular ethernet, and 12VDC plug. This allows you to power small network switches, IP cameras, and all sorts of other devices which may not support PoE natively. Providing 10/100Mbps ethernet speeds and up to 1.25A to the 12V plug.



NEW 2017

SPECIFICATIONS	YN-8414
PoE Voltage Input	44-57V
Voltage Output	12VDC @ 1.25A Max
Connectors	1x RJ45 PoE socket, 1x RJ45 ethernet plug, 1x DC plug
Protocol	IEEE 802.3 i 10 BASE-T, IEEE 802.3u 100 BASE-TX, IEEE 802.3 x Flow Control, IEEE 802.3af Power over Ethernet
Data Rate	10/100Mbps
Dimensions	35(W) x 505(D) x 30(H)mm

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	YN-8414	\$19.95	\$17.95	\$16.95

Gigabit PoE Injector

Most conventional Ethernet switches do not natively support PoE. This device adds the power inline to a single network cable, working up to 100m, so you don't need mains power down the line at the device. It supports up to gigabit network throughput for ultra-fast connectivity, and is PoE IEEE 802.3at compliant.



NEW 2017

SPECIFICATIONS	YN-8040
Input	1 x RJ45, 1 x AC Power Input
Output	1 x RJ45
Network	Gigabit up to 100m
PoE Output Power	52V @ 30W max
PoE Standard	IEEE 802.3at
Input Voltage	100-240VAC
Power Demand	35W max
PoE Power	1/2, 3/6 spare line pair (default); mid-span:
Supply End-Span	4/5, 7/8 data line pair (can be customised)
Dimensions	118(W) x 60(D) x 38(H)mm

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8040	\$59.95	\$53.95	\$47.95

5 Port PoE Switch

Reduces the need for mains power at each IP camera location, for instance, powering them from a central supply. Suitable for use up to 100m, it provides up to 30W per PoE port.



NEW 2017

SPECIFICATIONS	YN-8074
Ports	1 x 10/100 RJ45 4 x 10/100 RJ45 High Power PoE
PoE Port Power	30W (per port)
Max Combined PoE Power	65W
Backplane Bandwidth	1.6Gbps (non-blocking)
Max PoE Distance	100m
Network Protocols and Standards	IEEE 802.3i 10BASET, IEEE 802.3u 100BASETX IEEE 802.3x Flow Control, IEEE 802.3af DTE Power via MDI
Power Input	100-240VAC @ 50/60Hz
Dimensions	118(W) x 85(D) x 27(H)mm

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8074	\$119.00	\$106.95	\$94.95

Power-Over-Ethernet (PoE) Passive Kit

PoE (Power Over Ethernet) is a technology that allows transfer of electrical power, along with data, over twisted pair cables. Finding a power supply is a common obstacle in LAN installations: PoE allows you to power wireless access points or other equipment via a Cat 5 cable without the need to have a separate power source available.

- You simply connect a plugpack of the required voltage via the 2.1mm DC connector, then tap it where you need it at the other end.



NEW LOW PRICE

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8410	\$14.95	\$13.45	\$11.95

ETHERNET OVER POWER

Wi-Fi Powerline Ethernet Adaptor Kit

This brilliant device makes Wi-Fi range extension literally plug and play. It uses your existing mains wiring to extend (or create) your wireless network. Simply plug the main unit into mains power and an ethernet cable from your router. Place the wireless unit in another part of the home or office, and you'll have a new wireless network in seconds! It will work using up to about 300m of power cable, which is more than enough to cover most homes, or a small office. Saves time and money avoiding new data cables, and provides high quality local Wi-Fi signal. Quality N300 Wi-Fi for up to 300Mbps data speeds.



NEW 2017

Note: Product may differ to one shown

SPECIFICATIONS	YN-8357
Power	100-240VAC @ 0.1A, 50/60Hz
Max Mains Cable Range	300m
Networks	Cable: IEEE802.3, IEEE802.3u, IEEE802.3ab, Wi-Fi: IEEE 802.11n, 802.11b/g Cable: 128-bit AES encryption, Wi-Fi: WEP, WPA/WPA2, WPA-PSK/WPA2-PSK Encryption

Wi-Fi Enabled

1 YEAR WARRANTY

▲	N300	Cat.	Qty 1+	Qty 4+	Qty 10+
		YN-8357	\$149.00	\$133.95	\$118.95

Ethernet-Over-Power Kit

There are many instances where running a dedicated Ethernet cable is not practical, desirable, or even possible. This well engineered unit allows you to extend your ethernet connection over already-installed mains power connections. Simply connect, pair, and go! Ethernet speeds up to 500Mbps allow HD streaming, fast file transfers, and more. Ideal for SmartTVs, old computers, and just about any ethernet requirements.



NEW 2017

SPECIFICATIONS	YN-8355
Max Speed	500Mbps
Input / Output Sockets	RJ45
Dimensions	58(W) x 73(H) x 90(D)mm

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YN-8355	\$119.00	\$106.95	\$94.95

ETHERNET SWITCHES

8-Port Network Switches

Easily create or expand your wired network. It features everything you'd expect including MAC address auto-learning & ageing, half and full duplex (fully automatic), all in a compact desktop unit. Port and power LEDs for activity and power indication. YN-8380 includes mains adaptor and USB lead.

- Plug and Play
- Fanless quiet operation
- 1.6Gbps backplane bandwidth

SPECIFICATIONS	YN-8380	YN-8382
Data Rate	10/100Mbps	10/100/1000Mbps (Gigabit)
Interfaces	8 x RJ45	8 x RJ45
Input Power	100-240VAC @ 50/60Hz	100-240VAC @ 50/60Hz
Power Consumption	5VDC @ 0.8A (4W approx.)	5VDC @ 0.8A (4W approx.)
Dimensions	150(W) x 90(D) x 27(H)mm	150(W) x 90(D) x 27(H)mm

WAVLINK®

NEW
20171
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
10/100Mbps	YN-8380	\$29.95	\$26.95	\$23.95
10/100/1000Mbps (Gigabit)	YN-8382	\$64.95	\$58.45	\$51.95

WIRELESS NETWORK ADAPTORS

N150 Nano USB 2.0 Wireless Network Adaptor

They don't get much smaller than this. Excluding the USB plug, this wireless-N network adaptor measures in at an astounding 5mm wide. It's the ultimate in discrete networking and perfect for the PC, laptop, or netbook.

- Compatible with 802.11n/g/b networks
- Transfer rate up to 150Mbps
- Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x), WPA2 (AES with IEEE 802.1x)
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® 9.0-10.8, Linux
- Dimensions: 15(L) x 5(W) x 17(D)mm

1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
N150	YN-8309	\$19.95	\$17.70	\$15.70

N300 Mini USB 2.0 Wireless Network Adaptor

Add 802.11n wireless capability to your computer. Supports transfer speeds up to 300Mbps and is part of the 802.11n standard. A secure, sleek and convenient networking upgrade for the home or office.

- Security: 64/128bit WEP encryption
- WPA/WPA2 and WPA-PSK/WPA2-PSK encryption
- Wi-Fi protected setup (WPS)
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® 9.0-10.8, Linux
- Dimensions: 58(L) x 26(W) x 9(H)mm

WAVLINK®
1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
N300	YN-8307	\$24.95	\$22.45	\$19.95

AC600 USB Dual Band Wireless Network Adaptor

This is an ultra compact Wi-Fi dongle, ideal for notebook computers being moved around and where a larger dongle may be easily knocked and damaged. While many devices now have built-in Wi-Fi, there are many of us with hardware not Wi-Fi equipped, or specialised equipment which doesn't include it either. Dual band connection offers fast and stable access to just about any Wi-Fi signal, and is compatible with Windows and Mac systems.

- Dual band 2.4GHz and 5GHz
- Up to 433Mbps data rate

WAVLINK®

NEW
2017

SPECIFICATIONS	YN-8334
Standard	IEEE802.11 ac / a / b / g / n
Modulation	11ac/n: 16QAM, 64QAM 128QAM 256QAM with OFDM 11g: BPSK, QPSK, 16QAM, 64QAM, OFDM 11b: DQPSK, DBPSK, DSSS, CCK
Speed	802.11ac: up to 433Mbps, 802.11n: up to 300Mbps 802.11a: up to 54Mbps, 802.11g: up to 54Mbps 802.11b: up to 11Mbps
Frequency	5GHz, 2.4GHz
Distance	100m (Max)
System Compatible	Windows XP / Vista / 7 / 8 / 8.1/10, Mac
Dimensions	15(W) x 7(H) x 27(D)mm

1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
AC600	YN-8334	\$39.95	\$35.95	\$31.95

AC600 Long Range Wireless Network Adaptor

It seems only yesterday we were awed by the speed of 802.11n Wi-Fi. Now 802.11ac is here we can expect speeds up to 3 times faster than the previous standard. This tiny USB adaptor will give speeds up to 433Mbps with increased range. It's dual band so can switch between 2.4GHz (for 150Mbps) or 5GHz band (for 433Mbps). A 3dBi detachable dual band antenna is supplied to further improve performance of your Wi-Fi connection.

- Detachable 3dBi antenna
- Features Wi-Fi protected setup
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS X® 10.4+, Linux
- Dimensions: 50(L) x 16(W) x 12(H)mm

1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
AC600	YN-8313	\$44.95	\$40.45	\$35.90

AC1300 USB Dual Band Wireless Network Adaptor

Similar to the YN-8334 AC600 dongle opposite but provides a greater range and speed. A powerful internal antenna and dual band connection offers fast and stable access to just about any Wi-Fi signal, and is compatible with Windows and Mac systems.

- Dual band 2.4GHz and 5GHz
- Up to 1300Mbps data rate

NEW
2017

SPECIFICATIONS	YN-8336
Standard	IEEE802.11 ac / a / b / g / n
Modulation	11ac/n: 16QAM, 64QAM 128QAM 256QAM with OFDM 11g: BPSK, QPSK, 16QAM, 64QAM, OFDM 11b: DQPSK, DBPSK, DSSS, CCK
Speed	802.11ac: up to 867Mbps, 802.11n: up to 400Mbps 802.11a: up to 54Mbps, 802.11g: up to 54Mbps 802.11b: up to 11Mbps
Frequency	5GHz, 2.4GHz
Distance	Outdoors: 300m, Indoor 100m (Max)
System Compatible	Windows XP / Vista / 7 / 8 / 8.1/10, Mac
Dimensions	28(W) x 98(H) x 10(D)mm

1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
AC1300	YN-8336	\$69.95	\$62.95	\$55.95

USB 2.0 Bluetooth® V4.0 Class 2 Dongle

Connect a wide variety of popular Bluetooth® devices to your PC, including modern Bluetooth® Low Energy devices.

- Bluetooth® V4.0 Class 2 (also Bluetooth® 2.1 + EDR)
- Transfer rate: 3Mbps
- Supports BLE
- RoHS compliant
- Plug & Play
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000

+ Bluetooth® Transmitter & Receiver see page 82



Bluetooth®

1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Class 2 Bluetooth®	XC-4956	\$24.95	\$22.45	\$19.95

WHAT DO THE N & AC SPECS MEAN?

	N150	N300	AC450	AC600	AC750	AC1200	AC1300
Wi-Fi Standards	802.11b/g/n	802.11b/g/n	802.11a/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac	802.11a/b/g/n/ac
Wi-Fi Speed (Mbps)	Up to 150	Up to 300	Up to 433	Up to 150 + 433	Up to 300 + 433	Up to 300 + 867	Up to 400 + 867
Frequency (GHz)	2.4	2.4	5	2.4 & 5 (Dual band)	2.4 & 5 (Dual band)	2.4 & 5 (Dual Band)	2.4 & 5 (Dual Band)

TECH TALK

NETWORKING ACCESSORIES

N600 Dual Band Wi-Fi Bridge with Audio Streaming

A curiously shaped, classy solution for home entertainment. It is an ideal choice to upgrade your existing, slow and out-dated 54Mbps 11b/g devices to super-fast 300Mbps. The device comes with 2 LAN ports to provide Wi-Fi connectivity for two devices simultaneously and you can power from a spare USB port on your computer or via the supplied mains adaptor. Connect to the device through Wi-Fi with your Tablet, computer or Smartphone by using the built-in Wi-Fi Protected Setup (WPS) button and stream your favourite music to your audio system via the 3.5mm audio jack. Supplied with RJ45 Ethernet Cable, mains adaptor, Access Key card and user manual CD.

- Upgrade to 5GHz for HD video streaming
- Hardwired
- Wireless music streaming to your audio system
- Smart IQ Setup

- Status LED indicators
- Internal high power antenna
- WPS/Reset button



Easy Smartphone IQ setup
iPhone® not included



SPECIFICATIONS	YN-8368
Frequency Band	2.4GHz or 5GHz
Wireless Standards & Data Rates	IEEE 802.11a/b/g/n (up to 300Mbps)
Audio sample rate and resolution	DAC Signal-to-Noise Ratio (SNR) up to 100dB
Hardware Interface	2 x RJ-45 LAN ports (1 x Gigabit)
Security	64/128-bit WEP encryption and WPA-PSK, WPA2-PSK security, Wi-Fi Protected Setup (WPS)
System Requirements	Device with web browser for software configuration: Microsoft®, Internet Explorer®8.0, Google Chrome®, Firefox® or Safari®, iOS, Android® latest version and speaker with 3.5mm audio jack for music streaming
Antenna	2 x internal high - power 5dBi gain antenna
Power	5V DC 1.2A switching power adaptor
Dimensions	100(D) x 97(W) x 95(H)mm



▲	Cat.	Qty 1+
N600 Dual Band	YN-8368	\$59.95

USB 2.0 Network Adaptor with 3 Port Hub

For ultrabooks, Macbook Air® and Tablets where USB ports are sparse or RJ-45 network ports are non-existent. Simply connect a network cable to this device and you have a 10/100Mbps network adaptor. It also serves as a 3 port hub to connect peripherals such as a mouse, webcam, and keyboard.

- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Dimensions: 96(L) x 24(W) x 16(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	YN-8407	\$24.95	\$22.35	\$19.70

USB 3.0 Type-C Network Adaptor with 3 Port Hub

Sometimes Wi-Fi is simply not an option, and you need a reliable Ethernet connection. This USB 3.0 network adaptor and hub combo is designed for the latest MacBook Air® and Google Chromebook™ with new USB Type-C connectors. Currently the MacBook Air® only has one USB Type-C port which doesn't allow the use of other devices while something is plugged in. This adaptor allows you to expand up to 3 x USB 3.0 ports and provides you with an ethernet port which is non-existent on ultrabooks.



SPECIFICATIONS	YN-8409
Interface	1 x USB 3.0 Type-C Plug, 3 x USB 3.0 A Socket
Transfer Speed	up to 80Mbps
Network Connection	RJ45, 10/100Mbps
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.5+, Linux
Dimensions	85(L) x 24(W) x 17(H)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0 Type-C	YN-8409	\$39.95	\$35.90	\$31.90

USB 3.0 Gigabit Ethernet Converter with Type-C Adaptor

Modern Apple® Macbook® and Ultrabooks™ aren't able to connect to the internet using a LAN cable, as there is no LAN port provided. This converter provides a solution by converting a USB port to a ethernet port. With the combination of USB 3.0 and Gigabit ethernet, it maximizes the data transfer speed. A USB 3.0 Type-C adaptor is included so you can switch between Type-C and Type-A depending on the socket of your Macbook® or Ultrabook™.



SPECIFICATIONS	YN-8412
Interface	USB 3.0 Type-A, USB 3.0 Type-C Adaptor
Network Connection	RJ45, 10/100/1000Mbps
Network Support	IPv4 / IPv6
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, Mac OS X® 10.0+, Linux
Dimensions	70(L) x 30(W) x 15(H)mm

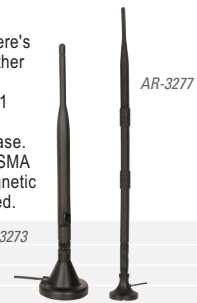


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0 Type-C	YN-8412	\$54.95	\$49.45	\$43.90

2.4GHz Wireless Networking Antennas

Want to get a longer range in your wireless network? Here's a quick and inexpensive way to improve the range at either your base station or terminal. These antennas are specifically designed for 2.4GHz applications and 802.11 wireless networking is an ideal application. This rubber antenna is a dipole design and features a detachable base. Supplied with a 1.5 metre lead terminated to a reverse SMA connector. Both models supplied with a detachable magnetic base. See our adaptors section for conversions if needed.

SPECIFICATIONS	BOTH MODELS	AR-3273
Frequency Range	2.4GHz	
Impedance	50 ohm	
Polarisation	Vertical	



▲	Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	5dBi	195mm	AR-3273	\$19.95	\$17.95	\$15.95
	11dBi	380mm	AR-3277	\$39.95	\$35.90	\$31.90

5/5.8GHz Wireless Networking Antennas

Improve your wireless signal of your existing wireless AC (802.11ac) modem/router by attaching these 5GHz networking antennas. Supplied with a 1.5m lead terminated to a reverse SMA connector and a detachable magnetic base.

+ See page 369 for 3G/4G Antennas



SPECIFICATIONS	AR-3286	AR-3288
Gain	5dBi	9dBi
Directionality	Omni directional	Omni directional
Frequency Range	5.5 - 5.85GHz	5.5 - 5.85GHz
Dimensions	220mm long	390mm long



▲	Gain	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
	5dBi	220mm	AR-3286	\$24.95	\$22.50	\$19.95
	9dBi	390mm	AR-3288	\$39.95	\$35.90	\$31.90

Cat5 UTP Splitter

Cat5 splitters enable two different devices to share the same Cat5 cable. They are usually used in pairs, one at each outlet. Please note: you can't use this device to run two computers from one network port: you'll need a network switch for that. This product is unsuitable for gigabit networks.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	YT-6090	\$16.95	\$14.95	\$13.35

BNC Terminator Plug

To terminate BNC sockets.

- Built-in 50Ω resistor.



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PP-0655	\$4.95	\$4.45	\$3.90

CAT5/6 CABLES AND TESTERS

Cat5e Patch Leads

RJ45 to RJ45.

- 350MHz stranded cable.

ACMA
ApprovedFor full range of Wallplates
and Keystones see page 139

▲ Colour	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
Blue	0.5m	YN-8200	\$3.25	\$2.90	\$2.60
Blue	1.0m	YN-8201	\$3.95	\$3.45	\$3.15
Red	1.0m	YN-8211	\$3.95	\$3.45	\$3.15
Yellow	1.0m	YN-8221	\$3.95	\$3.45	\$3.15
Green	1.0m	YN-8231	\$3.95	\$3.45	\$3.15
Blue	2.0m	YN-8202	\$5.25	\$4.60	\$4.15
Red	2.0m	YN-8212	\$5.25	\$4.60	\$4.15
Yellow	2.0m	YN-8222	\$5.25	\$4.60	\$4.15
Green	2.0m	YN-8232	\$5.25	\$4.60	\$4.15
Blue	3.0m	YN-8203	\$6.95	\$6.25	\$5.50
Blue	5.0m	YN-8204	\$8.95	\$7.95	\$6.95
Blue	10.0m	YN-8205	\$14.95	\$13.35	\$11.70
Blue	15.0m	YN-8206	\$21.95	\$19.70	\$17.35
Blue	20.0m	YN-8207	\$24.95	\$22.35	\$19.70
Blue	30.0m	YN-8208	\$37.95	\$33.95	\$30.45

2 in 1 Network Cable Tester & DMM

This innovative device is ideal for network installers or technicians and will allow the user to easily check cable integrity or measure AC & DC voltage, current, resistance, and continuity etc. without needing to carry two separate devices. The unit will check for cable continuity, open-circuits, short-circuits, and cross-connects etc. A remote terminator is included and enables the user to check network cables at a wall jack or patch panel. Supplied with loop back cable, LAN terminator, and multimeter leads.

LAN Tester Specifications:

- LAN tester checks faults
- Mis-wired conductors
- Manual or automatic testing

DMM Specifications:

- 600 volt max input
- 20M ohm resistance
- Diode test
- Max hold
- 200mA AC/DC
- 3.5 digit
- Data hold

Full specifications
on page 203

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5078	\$84.95	\$76.45	\$67.95

4P/6P/8P/ Modular Crimp Tool with Network/PoE Tester

A unique combination of a crimper tool and a cable tester in one unit. Designed for a wide range of telecom and network, security, and residential structured wiring, and professional applications. After crimping a modular connector, it enables you to quickly and easily test Ethernet twisted pair cable located on the handle of the tool for wiring continuity, opens, shorts, and mis-wires. With a single press on the TEST button, it will test the cable and gives the result of pin to pin configuration of the cables. The tester can also clip out of the housing and can be used as a general network tester. The tool is steel framed with PVC handles and rust resistant black oxide finish. The device also includes a PoE (Power-over-Ethernet) finder to check if a voltage is present on a port or cable you are testing. Supplied with a carry pouch that can directly worn on your belt.

- Testing for both UTP and STP cable
- Testing cable for continuity, opens, shorts, mis-wires
- Pin to pin indication
- Single and multi-wired cable crimping
- Integrated cable stripper and cutter
- Crimping tool and cable tester in one
- Detachable cable tester



TESTER UNIT	TH-1939
Display method	LED
Battery low	LED flash indicator
Power supply	4.5VDC (Includes 3 x LR-44 (SB-2950) type batteries)
CRIMPER UNIT	
Suitable for	8P, 6P, 4P
Dimensions	195(L) x 65(W) x 23(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	TH-1939	\$69.95	\$62.95	\$55.95

Crossover Cables

Crossover cable eliminates the need for a hub when connecting two computers.

▲ Colour	Length	Cat.	Qty 1+	Qty 4+	Qty 10+
Black	2.0m	YN-8272	\$6.50	\$5.75	\$4.95
Black	5.0m	YN-8274	\$10.95	\$9.85	\$8.75
Black	10.0m	YN-8275	\$16.95	\$15.25	\$13.55

Cat 6a Patch Cables

Upgrade your home or office network to speeds up to 10Gbps. Will drastically reduce bottlenecks in file transfers, improve daily redundancy routines on networked drives, and lower crosstalk which is more prevalent in business environments.

- Blue sheathed
- All models are ACMA approved

ACMA
Approved

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	YN-8292	\$3.95	\$3.45	\$3.15
1m	YN-8293	\$4.95	\$4.45	\$4.00
2m	YN-8294	\$7.95	\$7.15	\$6.35
3m	YN-8295	\$9.95	\$8.75	\$7.75
5m	YN-8296	\$14.95	\$13.45	\$11.95
10m	YN-8297	\$24.95	\$22.45	\$19.95
20m	YN-8298	\$34.95	\$31.45	\$27.95
30m	YN-8299	\$44.95	\$40.45	\$35.90

Mini Network Cable Tester with PoE Finder

Tests UTP/STP/Coaxial/Modular network cables by manually or automatically detecting missing or disordered wiring, and open or short circuits. It can quickly read the correct pin configuration of 10Base-T cable, 10Base-2 cable, RJ45/RJ11 modular cables, 258A, TIA-568A/568B and Token Ring cable etc. by comparing one transmitting end to the corresponding receiving end. Supplied in a plastic case and with a PoE (Power-over-Ethernet) Finder that indicates if the network port or cable has power.

Package Contents:

- 1 x Main Tester Unit with Terminator
- 1 x PoE Finder
- 2 x BNC Adaptor Cables
- 1 x BNC Male/Male Adaptor
- 3 x RJ45 to RJ11 Adaptors



Specifications:

- 9V battery required (use cat. SB-2423)
- Dimensions:
Main unit: 80(L) x 55(W) x 22(D)mm
Remote terminator: 80(L) x 25(W) x 23(D)mm
PoE finder: 80(L) x 25(W) x 23(D)mm

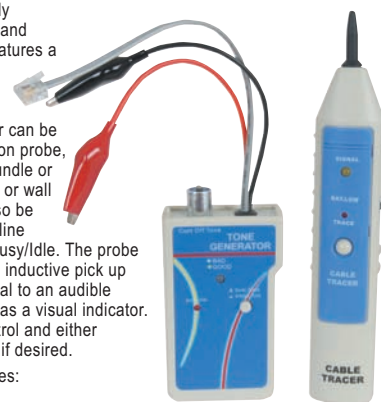


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5084	\$39.95	\$35.90	\$31.90

Network Cable Tracer

This tone generator is a highly practical network installation and troubleshooting tool which features a single/multi tone signal, test leads and a 4 conductor modular cable. The signal emitted by the tone generator can be easily traced by the companion probe, even when cables are in a bundle or hidden in punch down blocks or wall plates. The generator can also be used for checking telephone line polarity and status ie. Ring/Busy/Idle. The probe is equipped with an insulated inductive pick up and will amplify the tone signal to an audible level. A LED is also included as a visual indicator. The probe has a volume control and either indicator can be switched off if desired.

- The tone generator measures:
115(L) x 60(W) x 30(D)mm
- The signal leads are 185mm long & terminated with alligator clips
- The modular lead is 250mm long & terminated a 4 pin RJ12 plug
- The probe is 205mm long and approximately 35(H) x 35(D)mm
- Both units operate from a 9 volt batteries (sold separately). Use our Cat. SB-2423
- Supplied in a protective zip up vinyl case



Supplied in a protective zip up vinyl case.

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5083	\$99.95	\$89.95	\$79.95



MINI B - USB 2.0

USB 2.0 PLUG A TO 5 PIN MINI-B

Use this to connect your PC to a digital camera or camcorder. USB 2.0 compliant. A size male to B size mini male..



Suits Sony PSP®

▲ Length Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m WC-7709	\$5.95	\$5.25	\$4.75
1.8m WC-7710	\$9.95	\$8.75	\$7.75

USB A TO USB-MINI B MALE

High quality.



CONCORD

▲ Length Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m WC-7792	\$14.95	\$13.45	\$11.95

MICRO B - USB 2.0

USB A TO USB MICRO B LEAD



▲ Length Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m WC-7723	\$5.95	\$5.25	\$4.75
1.8m WC-7724	\$9.95	\$8.75	\$7.75

USB A TO USB MICRO B MALE

High quality.



CONCORD

▲ Length Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m WC-7796	\$14.95	\$13.45	\$11.95

USB TEST EQUIPMENT

USB Voltage & Current Display Lead

This USB A plug to Micro USB plug cable displays the voltage and current with its bright blue LED display. It toggles in displaying the voltage & actual current charge or supply to your electronic device, Tablet & Smartphone.

Two models available:

USB A TO MICRO B - XC-5072

USB A PLUG TO USB A SOCKET - XC-5073



Note: Smartphone not included

▲ Cat.	Qty 1+	Qty 4+	Qty 10+
Micro B XC-5072	\$19.95	\$17.95	\$15.70
USB A XC-5073	\$19.95	\$17.95	\$15.70

A/B USB 2.0

USB 2.0 A TO A

USB 4 Pin (A) Male to USB 4 Pin (A) Male
• Conforms to USB 2.0 standard - 480MBps



▲ Length Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m WC-7707	\$5.95	\$5.25	\$4.75
1.8m WC-7704	\$9.95	\$8.75	\$7.75

USB 2.0 A TO B

USB 4 Pin (A) Male to USB 4 Pin (B) Male
• Conforms to USB 2.0 standard - 480MBps



▲ Length Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m WC-7705	\$5.95	\$5.25	\$4.75
1.8m WC-7700	\$9.95	\$8.75	\$7.75
3.0m WC-7701	\$11.95	\$10.70	\$9.50
5.0m WC-7706	\$14.95	\$13.45	\$11.95

USB 2.0 A TO A EXTENSION LEAD

USB 4 Pin (A) Male to USB 4 Pin (B) Female
• Conforms to USB 2.0 standard - 480MBps



▲ Length Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m WC-7708	\$5.95	\$5.25	\$4.75
1.8m WC-7702	\$9.95	\$8.75	\$7.75
3.0m WC-7703	\$11.95	\$10.70	\$9.50

Active USB 2.0 Extension Leads

Extend your USB devices. A built-in extender allows you to put data over longer distances. All use USB timing and electrical specifications that eliminate signal errors you may get in passive cables. USB 2.0 or 3.0, male to female and cables can be joined up to 25 metres.



▲ Length Cat.	Qty 1+	Qty 4+	Qty 10+
5m XC-4839	\$24.95	\$22.35	\$19.70
10m XC-4120	\$39.95	\$35.90	\$31.90
20m XC-4124	\$49.95	\$44.90	\$39.90

USB RJ45 Extension Adaptor

Connect any USB device to your computer from up to 50 metres away via a standard Cat 5 network cable. Now you can have your printer, webcam, keyboard, mouse or any other USB device exactly where you want it without having to move your computer around.

- PC and Mac® compatible
- Requires standard Cat5e cables
- Supports USB 1.1
- Transmitter & Receiver included



▲ Cat	Qty 1+	Qty 4+	Qty 10+
XC-4884	\$29.95	\$26.90	\$23.70

HIGH QUALITY USB 2.0 LEADS

CONCORD

High quality USB 2.0 leads for your PC peripherals, professional audio or camera equipment. Superior shielding protects against potential electromagnetic interferences and ensures data continuity. 24K Gold plated connectors.

USB 3.0

USB 3.0 offers data rates of up to 4.8Gbps - a quantum improvement over USB 2.0.

USB 3.0 MALE A TO MALE B LEAD



WC-7772

USB 3.0 MALE A TO MALE A LEAD



WC-7770

USB 3.0 MALE A TO MICRO B LEAD



WC-7774

POWERED USB 3.0 EXTENSION LEADS

Suitable for high speed USB 3.0 applications.

- USB A plug to socket
- XC-4128 has option for external 5V power to support high consumption device



XC-4126



XC-4128
Due May 2017

▲ Length Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m WC-7772	\$14.95	\$13.45	\$11.95
1.8m WC-7770	\$14.95	\$13.45	\$11.95
1.8m WC-7774	\$14.95	\$13.45	\$11.95
5m XC-4126	\$34.95	\$31.45	\$27.90
NEW 10m XC-4128	\$69.95	\$62.95	\$55.95

ON-THE-GO (OTG)

USB 2.0 OTG Female A Plug to Right-Angle Micro Male B Plug

Connect a USB peripheral to a USB OTG compliant mobile/portable electronic device, such as your Smartphone.



▲ Length Cat.	Qty 1+	Qty 4+	Qty 10+
150mm WC-7725	\$4.95	\$4.45	\$3.95

USB A Socket to Samsung® OTG Adaptor

Allows you to connect a USB peripheral such as a USB flash drive or USB hub to your Samsung® Galaxy Tablet.



▲ Length Cat.	Qty 1+	Qty 4+	Qty 10+
220mm WC-7747	\$4.95	\$4.45	\$3.95

For Type-C OTG Cable see page 393

USB OTG (ON-THE-GO) TECH TALK

USB OTG (On-The-Go) is a specification which enables users to connect a standard USB input device, such as a computer mouse, keyboard, and sometimes a USB thumb drive to USB devices such as Smartphones.

AUTOMATIC ACCOUNT

For Schools, Government Departments, Public Companies, Radio & TV Stations

USB TYPE-C TECHNOLOGY

The latest USB Type-C technology is now being adopted in the latest computers, notebooks, MacBook's®, Tablets, Smartphones, etc. It is a compact size connector capable of carrying video, power & data at faster speeds. It is also double-sided (reversible), making it easier to insert first go. It connects to both hosts and devices, replacing the various Type-B & Type-A connectors and cables shown below with a standard meant to be "future-proof". The Type-C connector measures just 8.4mm wide x 2.6mm high (similar to the micro-B

connector), and has over 24 pins within the double-sided connector. These pins include 4 x power/ground pairs, 2 x differential pairs for USB 2.0 data bus, 4 x pairs for high-speed data bus, 2 x sideband use pins, and 2 x configuration pins for cable orientation detection, 1 x dedicated biphasic mark code (BMC) configuration data channel, and +5 V (VCONN) power for active cables. It is truly an amazing connector standing in front of even more amazing technology. See the tech talk below for further detail.

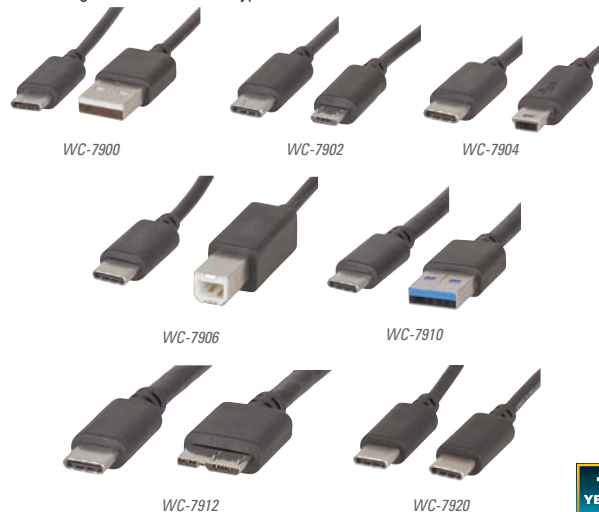


USB Type-C

TYPE-C LEADS & ADAPTORS

Type-C Leads

A new range of leads - all with Type-C males to various USB connectors.



		Cat.	Qty 1+	Qty 4+	Qty 10+
Type-C to USB 2.0 A Male Lead	1.8m	WC-7900	\$19.95	\$17.95	\$15.95
Type-C to USB 2.0 Micro B Lead	1.8m	WC-7902	\$19.95	\$17.95	\$15.70
Type-C to USB 2.0 Mini B Lead	1.8m	WC-7904	\$19.95	\$17.95	\$15.70
Type-C to USB 2.0 B Lead	1.8m	WC-7906	\$19.95	\$17.95	\$15.70
Type-C to USB 3.0 A Male Lead	1m	WC-7910	\$24.95	\$22.45	\$19.95
Type-C to USB 3.0 Micro B Lead	1m	WC-7912	\$24.95	\$22.50	\$19.95
Type-C to USB 2.0 Type-C Lead	1m	WC-7920	\$29.95	\$26.95	\$23.95

USB Type-C to USB 3.0 A Socket Adaptor 150mm

A lot of recent computers only have USB Type-C sockets. This short adaptor lead will allow you to continue using your old USB peripherals on your new computer.



	Cat.	Qty 1+	Qty 4+	Qty 10+
Type-C to USB 3.0 Socket	WC-7909	\$14.95	\$13.45	\$11.95

See page 396 for Type-C Video Converters

DO A FRIEND A FAVOUR

If you have a technical friend or someone who may be just interested in some of the products we stock, simply mail or email his or her address to:

Catalogue Department
Jaycar Electronics:
PO Box 7172
Silverwater, NSW 1811
or email to catalogue@jaycar.com

USB 2.0 to Type-C Socket Adaptor

Converts a standard USB type A plug to Type-C.

Limited Stock



	Cat.	Qty 1+	Qty 4+	Qty 10+
Type-C to USB 2.0	PA-0928	\$6.95	\$6.25	\$5.55

USB 2.0 Type-C to Micro B Socket Adaptor

A lot of recent computers only have USB Type-C sockets. Use this adaptor for when you require a USB Micro B socket.



	Cat.	Qty 1+	Qty 4+	Qty 10+
Type-C to USB 2.0	PA-0937	\$7.95	\$7.15	\$6.35

USB 3.0 A Plug to Type-C Socket Adaptor

Converts a USB 3.0 Type-C socket to Type-A plug.



	Cat.	Qty 1+	Qty 4+	Qty 10+
Type-C to USB 3.0	PA-0929	\$11.95	\$10.75	\$9.55

USB 3.0 Type-C to Socket Adaptor

Converts a standard USB 3.0 type A plug to Type-C. Please Note: This unit only works for PC's or laptops, it is not suitable to use as USB On-The-Go (OTG) for smartphones and tablets.

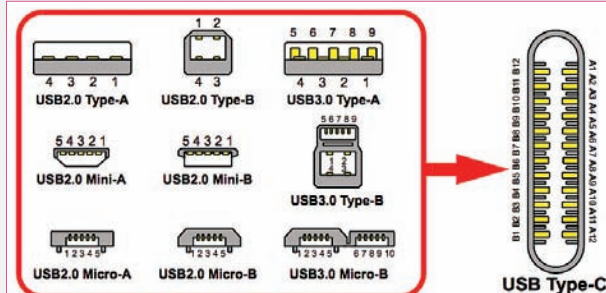


	Cat.	Qty 1+	Qty 4+	Qty 10+
Type-C to USB 3.0	PA-0935	\$11.95	\$10.75	\$9.55

TYPE-C CONNECTORS

TECH TALK

The Type-C connector measures just 8.4mm wide x 2.6mm high (similar to the micro-B connector), and has over 24 pins within the double-sided connector. These pins include 4 x power/ground pairs, 2 x differential pairs for USB 2.0 data bus, 4 x pairs for high-speed data bus, 2 x sideband use pins, and 2 x configuration pins for cable orientation detection, 1 x dedicated biphasic mark code (BMC) configuration data channel, and +5V (VCONN) power for active cables. It is truly an amazing connector standing in front of even more amazing technology.



CONVERTERS & ADAPTORS

USB to DB9M RS-232 Converter

This USB to 9 pin Serial (RS-232) converter allows a computer with a USB port to use any RS-232C serial device via the USB port. Suitable for digital cameras, modems, POS systems, ISDN terminal adaptors etc. The converter is powered by the USB port.

- Full compliance with USB specification 1.1(0)
- Over 1Mbps data transfer rate
- Support remote wake-up and power management
- Cable 1.5m long.
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 8.6+, Linux



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	XC-4834	\$29.95	\$26.95	\$23.95

RS-232 DB9 to USB Converter

Connect a variety of legacy RS-232 devices to your modern computer with this simple adaptor.

- USB 1.1 compliant / Speed: Over 250kbps
- Remote wake-up and power management
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® 9.0+, Linux



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4927	\$27.95	\$24.95	\$22.35

RS-485/422 to USB Converter

Wire up an RS-485/422 device to the 4 socket terminal block to give your hardware USB connectivity. It features surge protection to guard against unpredictable voltage spikes. Suitable for industrial, military, marine, science and custom built applications. One USB A male to male cable is supplied.

- Includes a 610mm USB A Male to Male cable
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 55(L) x 42(W) x 24(H)mm



▲	Cat.	Qty 1+
	XC-4132	\$59.95

USB Port to RS-485/422 Converter

The days of on-board communication ports other than USB are virtually just a memory now, but they're still very common. RS-485/422 is commonly found in thermal printers (eg, point of sale), modem communications, and more. This converter provides that connection from your modern USB port with great reliability.



Due May 2017

SPECIFICATIONS		XC-4136			
Baud Rate		300bps-921kbps			
Standards		TIA/EIA RS-485/RS-422			
Supports		Windows XP/Vista/7/8/8.1/10 (32/64-bit)/Linux/Mac OS			



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	XC-4136	\$49.95	\$44.95	\$39.95

USB to Parallel Bi-Directional Cable

This handy device replicates the old 25 pin printer socket and lets you use your legacy devices just like you would with a normal printer port. The USB interface provides up to 12Mbps data throughput, so printing is significantly faster compared with standard a parallel port (150kbps) connection.

- USB Printer Class Specification 1.0 compliant
- IEEE-1284 1994 (Bi-directional parallel interface)
- USB 1.1 Compliant A type male connector
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP
- Plug & Play support



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2m	XC-4847	\$39.95	\$35.90	\$31.90

Serial to Ethernet Converter

An ideal solution for people who need to monitor or access RS-232 based equipment remotely or to share them over a network. There is one 9-pin male RS-232 plug, an RJ-45 socket and a terminal block to wire up RS-485 or RS-422 connections. Can be accessed remotely through a simple web interface.

SPECIFICATIONS		XC-4134			
Supports		10/100M			
Converts		RS-232, RS-485 & RS-422			
Dimensions		88(L) x 68(W) x 27(H)mm			



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4134	\$149.00	\$133.95	\$118.95

GENDER CHANGERS

DB9

All Pins wired straight through



PA-0900



PA-0901

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Male/Male	PA-0900	\$5.95	\$5.25	\$4.75
Female/Female	PA-0901	\$5.95	\$5.25	\$4.75

DB9 MALE TO FEMALE ADAPTOR - 90°

DB9 Male to DB9 Female



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
DB9	PA-0908	\$5.95	\$5.25	\$4.75

VGA PLUG TO SOCKET - 90°

VGA plug to socket right adaptor.

- Available with the socket angles up or down

PA-0898



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Angled Up	PA-0898	\$8.95	\$7.95	\$6.95
Angled Down	PA-0899	\$8.95	\$7.95	\$6.95

DB25/DB9

D25 Female to D9 Male serial port adaptor.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
DB25F/DB9M	PA-0882	\$5.95	\$5.25	\$4.75

DB15 HIGH DENSITY

All Pins wired straight through



PA-0875



PA-0876

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Male/Male	PA-0875	\$6.95	\$6.25	\$5.50
Female/Female	PA-0876	\$6.95	\$6.25	\$5.50

"A" FEMALE TO "A" FEMALE



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Skt to skt	PA-0921	\$7.95	\$6.95	\$6.25

"A" MALE TO PS/2 FEMALE



PA-0915

"A" FEMALE TO PS/2 MALE



PA-0917

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Male	PA-0915	\$7.95	\$6.95	\$6.25
USB Female	PA-0917	\$7.95	\$6.95	\$6.25

IN A HURRY?

Buy online,
collect in-store!



DB25 MALE TO RJ45 8 X 8 SOCKET

- Unwired

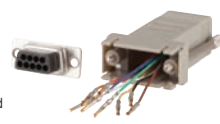


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
DB25 Male	PA-0904	\$7.95	\$6.95	\$6.25

DB9 SOCKET TO RJ45

Socket adaptor

- Unwired



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-0906	\$5.95	\$5.25	\$4.75

DIGITAL VIDEO INTERFACE

Female to female

- Compatible with DVI-I single dual link, DVI-D single/dual link & DVI-A male
- All pins wired straight through



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-0896	\$14.95	\$13.35	\$11.70

DVI-A PLUG TO VGA SOCKET

For connecting DVI-A or DVI-I video cards with VGA monitors.

- Note: will not display digital video signal from a DVI-D output, even though the plug physically fits.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-0897	\$12.95	\$11.35	\$10.35

COMPUTER LEADS

Connectors		Length	Quality	Cat.	Page
DB9 Plug	DB9 Socket	1.8m	Best	WC-7534	395
DB9 Socket	DB9 Socket	0.5m	Best	WC-7511	395
DB9 Socket	DB9 Socket	1.8m	Best	WC-7513	395
DB9 Plug	DB9 Plug	1.8m	Best	WC-7535	395
DB25 Plug	DB9 Socket	1.8m	Best	WC-7516	395
DB26HD Plug + 3.5mm Stereo	DB26HD Plug + 3.5mm Stereo	1.8m	Good	WC-7584	395

COMPARISON GUIDE

Connectors		Length	Quality	Cat.	Page
DB15HD Plug	DB15HD Socket	1.8m	Good	WC-7500	395
DB15HD Plug	DB15HD Plug	0.5m	Good	WC-7583	395
DB15HD Plug	DB15HD Plug	1.8m	Good	WC-7582	395
DB15HD Plug	DB15HD Plug	0.5m	Best	WC-7585	395
DB15HD Plug	DB15HD Plug	2.0m	Best	WC-7586	395
DB15HD Plug	DB15HD Plug	5.0m	Best	WC-7588	395
DB15HD Plug	DB15HD Plug	10.0m	Best	WC-7258	395
DB15HD Plug	DB15HD Plug	15.0m	Best	WC-7257	395

SERIAL CABLES

DB9 MALE TO DB9 FEMALE EXTENSION CABLE
All pins wired straight through.



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC-7534	\$9.95	\$8.75	\$7.75

DB9 FEMALE TO DB9 FEMALE NULL MODEM



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC-7511	\$6.95	\$6.25	\$5.50
1.8m	WC-7513	\$11.95	\$10.70	\$9.50

DB9 MALE TO DB9 MALE



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC-7535	\$9.95	\$8.75	\$7.75

SERIAL MODEM CABLE
DB25 Male to DB9 Female



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC-7516	\$11.95	\$10.70	\$9.50

MONITOR CABLES

VGA MONITOR LEAD WITH 3.5MM AUDIO

1.8m VGA DB15HD to DB15HD lead.
Includes a stereo 3.5mm plug at each end for audio transfer.



▲ Cat.	Qty 1+	Qty 4+	Qty 10+
WC-7584	\$16.95	\$14.95	\$13.35

VGA MONITOR EXTENSION

DB15HD Male to DB15HD Female.



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WC-7500	\$11.95	\$10.70	\$9.50

DVI VIDEO CABLES

DVI TO DVI VIDEO CABLE

- Can be used for DVI-A or DVI-D
- Male to Male
- 24 pin
- 2m



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WC-7590	\$29.95	\$26.95	\$23.95

DVI TO DVI VIDEO CABLE

- DVI to 15 pin HD VGA
- 2m



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
2.0m	WC-7594	\$24.95	\$22.35	\$19.70

VGA MONITOR CONNECTING CABLE

DB15HD Male to DB15HD Male

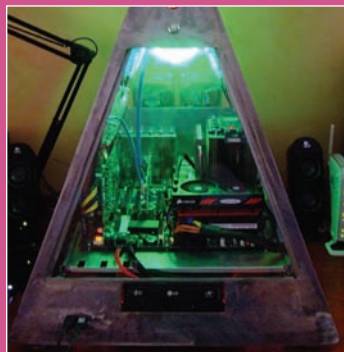


▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC-7583	\$6.95	\$6.25	\$5.50
1.8m	WC-7582	\$11.95	\$10.70	\$9.50

SHOW US YOUR BUILD COMPETITION

Greg, who shops at our Jaycar Fyshwick store built:

Home built PC with switches from Jaycar and test equipment.



XVGA MONITOR CONNECTING CABLES

- DB15HD male to DB15HD male
- Ferrite suppression on both ends
- Superior electrical screening



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
0.5m	WC-7585	\$8.95	\$7.95	\$6.95
2.0m	WC-7586	\$18.95	\$16.95	\$14.95
5.0m	WC-7588	\$39.95	\$35.90	\$31.90
10.0m	WC-7258	\$49.95	\$44.90	\$39.90
15.0m	WC-7257	\$69.95	\$62.95	\$55.95

RELATED PRODUCTS

FROM
\$64.95
YN-8402



KVM SWITCH

P397

FROM
\$9.95
HP-1228



DESK GROMMET

P167

FROM
\$14.95
WH-5654



CABLE WRAP

P165

FROM
\$59.95
CW-2874



MONITOR BRACKETS

P398

VIDEO CONVERTERS

Composite & S-Video to VGA Video Converter with VGA Loop Through

Connect a composite video or S-video source to a display monitor which only has VGA input. Ideal for connecting an old game console, VHS player, etc to your computer monitor or plasma TV. Features an on screen display where you can adjust resolution, picture mode, brightness, contrast, saturation and hue. Also has VGA loop through so you can have a computer and composite/S-video source connected to the same display.

- On screen display
- Supports PAL/NTSC
- Digital comb filter to prevent cross colouring
- Compatible resolutions:

800 x 600 @ 60Hz/75Hz, 1024 x 768 @ 60Hz, 1280 x 1024 @ 60Hz, 1280 x 720 @ 60Hz, 1360 x 768 @ 60Hz, 1440 x 900 @ 60Hz, 1600 x 1200 @ 60Hz, 1680 x 1050 @ 60Hz, 1920 x 1080 @ 60Hz, 1920 x 1200 @ 60Hz

- Dimensions: 95(L) x 54(W) x 26(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4906	\$49.95	\$44.90	\$39.90

VGA to Composite & S-Video Converter

A compact and versatile device that lets you use your wide screen plasma or LCD screen as a computer monitor for gaming or presentation use. The unit accepts a standard VGA input and generates both composite video and S-Video signal simultaneously, so you can watch and record the video signal at the same time or even send it over a video distribution system. Great for watching DVDs, gaming, presentations, or just having a big screen on your computer. The unit powered from the computer's USB port and has an on-screen setup menu to adjust the video output signal and picture size. No software is required.

- Supports composite video and S-video output
- Up to 1024 x 768 resolution
- Display on both PC and TV simultaneously
- Input and output leads included
- Powered from USB Port
- Dimensions: 90(L) x 70(W) x 25(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4871	\$69.95	\$62.95	\$55.95

USB to DVI Adaptor

Enabling the addition of up to six extra displays, this adaptor allows you to add high-resolution graphics without having to add a graphics card - just connect it to any USB 2.0 port. Ideal for gamers, conference or AV rooms, POS systems or industrial applications.

- Supports DVI video output via HDMI-DVI adapter
- Easily connects additional monitors using a USB 2.0 cable
- Mirror or extend computer display workspace
- Resolution: up to 1,920 x 1,080 pixels at 32-bit colours
- No external power supply needed
- Compatibility: Windows 8.1, 8, 7, Vista, XP, Mac OS X® 10.0+



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4879	\$89.95	\$80.95	\$71.95

USB 3.0 (Video/Audio) to 1080p HDMI

Add an additional monitor or projector to your computer. Uses USB 3.0 superspeed to ensure smooth and responsive 1080p streaming. A great solution if your current PC has limited display outputs but you require more screen landscape. It also carries audio through to the HDMI output so you can turn your PC into a home theatre PC without audio sync issues.

- Supports 16:9 full HD 1080p video streaming
- Resolutions up to 2048 x 1152 @ 32 bit colour
- HDMI ver 1.2 compatible
- Low power consumption
- Supports desktop mirror, extend mode, multi-screen mode, & rotation mode
- Add up to four USB 3.0 adaptors simultaneously
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS X® 10.0+
- Dimensions: 275mm x 35mm x 15mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4973	\$109.00	\$97.95	\$86.95

2 Port VGA/Audio Splitter

Takes a computer's VGA and audio signal and sends it to two (2) analogue monitors and headphones/speakers. The same image is displayed on both monitors and identical audio streams are piped to each 3.5mm audio jack. The splitter provides fast, flexible solutions for test bench facilities, data centres or video broadcasting such as remote monitoring, presentations, education and stock quotes etc. Supports VGA, SVGA, XGA and Multi-Sync. Mains power adaptor included.

- Bandwidth up to 500MHz
- Resolution up to 1920 x 1200 and 1080p
- Transmit video/audio up to 15m
- Dimensions: 125(W) x 25(H) x 72(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	2 Port Splitter			
	YN-8075	\$74.95	\$67.45	\$59.95

VGA & USB Audio to HDMI Audio/Video Converter

Connect older PCs up to more modern displays such as LCD's and plasma screens. Just plug the VGA and USB cable into your PC and it will output a HDMI signal with audio/video. Doesn't get much simpler than that as the converter requires no external power. Fantastic for turning that old laptop or PC into a media centre for use on your big new flat screen

SPECIFICATIONS AC-1639
 VGA cable 300mm long
 USB cable 1200mm
 Supports 165MHz/1.65Gbps per channel
 Powered from USB port
 Converter unit 80(L) x 55(W) x 11(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	300mm/1200mm			
	AC-1639	\$59.95	\$53.95	\$47.95

See page 79 for our HDMI A/V Converter with Audio Output

Type-C Converters

These USB 3.0 Type-C converters are designed to take advantage of high performance USB Type-C connectors on new PCs and Macs® to convert to an existing VGA, DVI and HDMI signal. These converters don't need complicated drivers and delivers up to 1080p resolution depending on the application.



SPECIFICATIONS	XC-4961	XC-4963	XC-4965
Interface	USB 3.0 Type-C, VGA 15 pin	USB 3.0 Type-C, DVI-I	USB 3.0 Type-C, HDMI V1.4B
Resolution	up to 1080p, 60Hz	up to 1080p, 60Hz	up to 4 x 2K, 30Hz
Dimensions	43(L) x 43(W) x 13(D)mm	43(L) x 43(W) x 13(D)mm	43(L) x 43(W) x 13(D)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	VGA			
	XC-4961	\$59.95	\$53.95	\$47.95
	DVI			
	XC-4963	\$59.95	\$53.95	\$47.95
	HDMI			
	XC-4965	\$59.95	\$53.95	\$47.95

USB Type-C AV Multiport Adaptor

The USB Type-C AV multiport adaptor lets you connect your MacBook®, Google Chromebook™ and other devices with a USB Type-C port to an HDMI display, while also connecting two USB devices and a USB Type-C power delivery charging port. This adaptor allows you to mirror your Type-C devices display to your HDMI enabled TV or monitor in up to 4K resolution. With a unique power delivery system, it enables an existing Type-C power supply to charge your laptop while the multiport adaptor is connected. It recognised and adjusts the device's specific voltage requirement including 5, 12, 14.5 and 20V to support all laptops.

SPECIFICATIONS XC-4967
 Interface USB 3.0 Type-C
 Inputs 2 x USB 3.0 Type-A Ports
 1 x USB 3.0 Type-C Power Delivery/Data Port
 1 x HDMI V2.0 @ 30Hz
 Output
 Video Resolution 4 x 2K
 USB Transfer Rate up to 80Mbps
 Power Delivery Profile 4 (20V, 3A Max)
 Power Delivery Support 2.0 (V1.1)
 Dimensions 81(L) x 52(W) x 15(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4967	\$99.95	\$89.95	\$79.95

DISPLAYPORT LEADS & CONVERTERS

DisplayPort to DisplayPort Male Lead

A DisplayPort lead primarily used to connect a video source to a display device such as a computer monitor.

- Supports DisplayPort V1.2
- Three types to choose from.



▲ Type	Length	Hz	Cat.	Qty 1+	Qty 4+	Qty 10+
Plug to Plug	1.8m	60	WQ-7450	\$19.95	\$17.95	\$15.70
Plug to Plug	3.0m	30	WQ-7452	\$29.95	\$26.95	\$23.70
Plug to Mini Plug	1.8m	30	WQ-7454	\$29.95	\$26.95	\$23.70

Mini DisplayPort to VGA Converter

Connect modern computers with a Mini DisplayPort to a conventional VGA display, such as CRT, LCD monitor or projector. Mini DisplayPort offers a unified, scalable, and cost effective interface for embedded and external display applications.

- Mini DisplayPort 1.1a compliant
- Supports up to 1080p, 1920 x 1200 video resolution



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WQ-7440	\$29.95	\$26.90	\$23.70

Mini DisplayPort to DVI Video Cable

Converts the Mini DisplayPort on a Mac® or other Apple® product to a standard DVI connector, which can connect to a standard monitor.



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WQ-7444	\$29.95	\$26.90	\$23.70

Mini DisplayPort to HDMI Lead for Mac®

Connect your Mac® to a high definition display with this mini display HDMI lead.

- Designed for Mac® computers
- Plug and play



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	WQ-7442	\$29.95	\$26.90	\$23.70

Mini DisplayPort to HDMI Lead

Connect your Mac® to a high definition display with this mini display HDMI lead.

- Designed for Mac® computers
- Plug and play



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
3.0m	WQ-7443	\$34.95	\$31.45	\$27.95

KVM SWITCH

2-Port USB KVM Switch

Share your keyboard, monitor, mouse, and USB devices between two different computers. It doesn't end at your keyboard however, with a USB audio converter onboard so you can connect speakers/headphones and a micro-phone to the KVM too. But there's no additional cables needed, only VGA and USB are required to each computer. It features a physical pushbutton switch, as well as hotkey switching support. High resolution 2048 x 1536 display support ensures you're not limited to low-grade monitors either. Power is even supplied by the USB ports, so there's no power supply needed. Plug and play operation with no drivers required.



Due May 2017

SPECIFICATIONS	YN-8402
Max Video Resolution	2048 x 1536 (> Full HD)
Switching Mode	Pushbutton / Hotkey Sequence
Operating Systems	Supports All Major Operating Systems
Dimensions	92(W) x 65(D) x 26(H)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
2 port	YN-8402	\$64.95	\$57.95	\$51.95

Mini DisplayPort to DisplayPort/HDMI/DVI Converter

Combine several mini DisplayPort converters into one with this useful unit. Easily converts to high definition displays that take HDMI, DVI or DisplayPort. Fully powered from the mini DisplayPort of your input device. A useful tool to use with your Macbook Air® or other Apple® device when wanting to output to a large screen TV.

- Output types: DisplayPort Female Type A 20pin, HDMI Female Type A, DVI Female (24+1)
- Supports DisplayPort 1.1a
- HDMI can support audio output for iMac® and MacBook Pro®
- HDMI/DVI output up to 1920 x 1080p @ 60Hz
- Display it auto detected
- DisplayPort 1.1a Dual-mode output with max resolution of 2560 x 1600
- Lead length: 180mm
- Unit Dimensions: 78(L) x 44(W) x 15(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
180mm	WQ-7427	\$39.95	\$35.90	\$31.90

USB 3.0 Type-C to DisplayPort Converter

This USB 3.0 Type-C to DisplayPort converter is designed to convert an existing DisplayPort signal to a new USB Type-C connector. This converter takes advantage of high performance USB Type-C connectors on new PC's and MacBooks® and doesn't need complicated drivers. Delivers up to 4 x 2K resolution depending on the application.

SPECIFICATIONS	XC-4971
Interface	USB 3.0 Type-C
Display Port	V1.2
Resolution	Up to 4 x 2K, 60Hz
Dimensions	43(L) x 43(W) x 13(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
180mm	XC-4971	\$59.95	\$53.95	\$47.95

2 Way DisplayPort Splitter

This splitter allows for a DisplayPort signal to be split to two different devices such as computer monitors, TV's or projector screens. DisplayPort can be used to transmit audio and video simultaneously, but each one is optional and can be transmitted without the other. HDMI and DVI output achievable with use of a passive adaptor or Mini DisplayPort with the use of an additional converter cable. Typically suited for small-scale use in the home, office, shop fronts or classrooms where only two duplicated displays are required. Compliant with VESA DisplayPort standard link rates of 1.62, 2.7 and 5.4Gbps. Includes a mains power adaptor.

SPECIFICATIONS	AC-1755
Input	1 x DisplayPort
Outputs	2 x DisplayPort
Resolution	up to 4X2K (4096 x 2160) @ 60Hz
DisplayPort	V1.2a
Audio	up to 7.1 Channel
Compliant	DP++, HDCP
Power	5VDC, 1A
Power Consumption	3W
Dimensions	71(L) x (61)W x 21(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	AC-1755	\$99.95	\$89.95	\$79.95

2 Way DisplayPort Switcher

With the flick of a switch this product allows you to select from one of two DisplayPort sources to output to a single computer monitor, TV or projector. Suitable for when you want the flexibility of switching between two audio visual sources for the one display device. DisplayPort can be used to transmit audio and video simultaneously, but each one is optional and can be transmitted without the other. HDMI and DVI output achievable with use of a passive adaptor or Mini DisplayPort with the use of an additional converter cable. Typically suited for small-scale use in the home, office, shop fronts or classrooms where two sources need to be switched. Compliant with VESA DisplayPort standard link rates of 1.62, 2.7 and 5.4Gbps. Switching is operated manually on the front of the unit. Includes a mains power adaptor.

SPECIFICATIONS	AC-1757
Input	2 x DisplayPort
Outputs	1 x DisplayPort
Resolution	up to 4X2K (4096 x 2160) @ 60Hz
DisplayPort	V1.2a
Audio	up to 7.1 Channel
Compliant	DP++, HDCP
Power	5VDC, 1A
Power Consumption	3W
Dimensions	71(L) x (61)W x 21(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Way	AC-1757	\$99.95	\$89.95	\$79.95

MONITOR BRACKETS

Single LCD Monitor Desk Stand

Features a big sturdy base designed to keep your desk clutter free and monitor at eye level. Cable management allows you to run your power and video leads down the structure of the stand to keep your workspace clear of cables. Black powder coated finish will ensure it doesn't get scratched too easily. There is also the option of bolting it to a desk (will require drilling) if you require a more permanent installation. An M10 bolt with washer is supplied.

- VESA mounting (75mm x 75mm and 100mm x 100mm)
- Recommended monitor size: 13-27" using securing bolt; up to 22" using free standing base
- Tilt: Up 90°, down 45°
- Rotate: 360°
- Dimensions: 490(H)mm pole, 270(L)mm arm



Monitor not included



	Cat.	Qty 1+	Qty 5+	Qty 10+
Desk Mount	CW-2839	\$79.95	\$71.95	\$63.95

PC Monitor Desk Bracket

Improve your workspace ergonomics and free up your desk area by suspending your display above your table. The flexible design clamps to the edge of the desk and offers an exceptional range of motion to position the monitor. Fits most 13 to 27 inch flat-screen displays with VESA compliant mount points and a maximum weight of 8kg. Includes all necessary mounting hardware to suit a variety of monitors.

- Adjustable tilt, swivel and rotation
- Cable management clips on arm
- Maximum arm height above table: 410mm
- Maximum arm extension from upright: 394mm
- Maximum clamp point thickness: 65mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2874	\$59.95	\$53.95	\$47.95

Dual PC Monitor Desk Bracket

This dual PC monitor VESA-compliant, desk clamp frees up valuable space in your workstation and increases workday productivity by enabling the suspension of two flat-screen displays on a single adjustable clamping base. Its unique, flexible design offers an exceptional range of motion and allows monitors to be placed back-to-back for use by more than one person. Other features include display adjustment with tilt, swivel and rotation capabilities and fits most 13" to 27" flat-screen displays. Its durable, all-metal frame with scratch-resistant, powder-coat finish withstands the stress of repeated use and blends easily into any decor. It comes with all necessary mounting hardware, and each mount supports weights of up to 8kg.



	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2875	\$79.95	\$71.95	\$63.95

Articulating Mounting Arms to Suit Apple® iMacs® & Displays

In keeping with the stylish nature of Apple® products, we introduce two very stylish articulated mounting arms. Both are white in colour, one desk mount, the other wall mount. Both conform to the unique rear mounting arrangements of the Apple® product.

Note: To remove your current iMac® stand you must slide a thin piece of plastic or cardboard in the stand socket, this will switch a lever (you should hear an audible click) so you can turn the stand and expose screws. Then remove all screws and the stand can be taken off for attachment to the bracket. Both units will carry 14 kilograms at the maximum lift of 371mm. The maximum extension is 663mm for CW-2870 and 680mm for the CW-2871.

Compatibility:

- 27" Thunderbolt® Display
- 24" - 27" LED Cinema Display
- 24" iMac® (aluminium & glass)
- 27" iMac®

APPLE® DISPLAYS STAND REMOVAL TECH TALK

Note: To remove your current iMac® or Thunderbolt® LCD Monitor stand you must slide a thin piece of plastic or cardboard in the stand socket, this will switch a lever (you should hear an audible click) so you can turn the stand and expose screws. Then remove all screws and the stand can be taken off for attachment to the bracket. See our website for a video.



	Cat.	Qty 1+
Desk Mount	CW-2870	\$39.95
Wall Mount	CW-2871	\$39.95

PC Monitor Desk Stand

Features a sturdy base designed to keep your desk clutter free and monitor at eye level. Cable management allows you to run your power and video leads down the structure of the stand to keep your workspace clear of cables.

- Black powder coated finish will ensure it doesn't get scratched too easily
- Supports up to an 8kg Monitor



	Cat.	Qty 1+	Qty 5+	Qty 10+
	CW-2876	\$79.95	\$71.95	\$63.95

Dual Monitor Desk Stand

This desktop unit will accommodate two monitors up to 27" each with a combined weight up to 8kg. There's no clamp, just a large base to sit on the desk top, so it's suitable for glass / sensitive table-tops too. Supports 75mm and 100mm VESA mounts, and is height adjustable.

Cable-tidy clips are provided to keep all those cables neat, and screen mounting hardware (spacers, screws, etc.) are also provided.



SPECIFICATIONS		CW-2880
Monitor Size		13-27" each
Max Weight		8kg combined
Weight		4.3kg
Dimensions		Max Arm Span: 700mm, Height: 405mm

	Cat.	Qty 1+	Qty 3+	Qty 6+
	CW-2880	\$99.95	\$89.95	\$79.95

PC SECURITY

Combination Notebook Cable Lock

As easy as typing in four digits to unlock your phone, this laptop security cable has a four digit combination that you can customise for security. It's 1.8m long and has a swivel on the end so moving it around your desk area will not be a problem.

- 4 digit combination
- Steel lock mechanism



	Cat.	Qty 1+	Qty 4+	Qty 10+
1.8m	XC-4639	\$16.95	\$14.95	\$13.35



For TV Wall Brackets see page 100

MULTIMEDIA SPEAKERS

USB Powered PC Speakers

Portable USB-powered speakers for use with laptops, desktop PCs or mobile music players. Contemporary, space saving design with plug and play functionality. Separate volume control, power switch and headphone output, and as they're powered via your computer's USB, there's no need to use a plug pack or batteries.

SPECIFICATIONS	XC-5191
Power output	1.8WRMS
Input jack	3.5mm
Input power	USB
Frequency response	160Hz - 20kHz
Dimensions	154(H) x 75(W) x 36(D)mm



▲ Plug	Wattage	Cat.	Qty 1+	Qty 4+	Qty 10+
USB	1.8WRMS	XC-5191	\$14.95	\$13.35	\$11.70

Active Multimedia Speakers

Connect your PC, MP3 player, Smartphone or Tablet to these stylish 2 channel speakers. The attractive folded back design matches the surprisingly good audio quality. Mains powered and supplied with a 3.5mm stereo audio cable for almost universal connection to an array of devices.

SPECIFICATIONS	XC-5120
Power output	3W
Input jack	3.5mm
Input power	240VAC
Frequency response	100Hz - 20kHz
Dimensions	170(H) x 90(D) x 70(W)mm



▲ Plug	Wattage	Cat.	Qty 1+	Qty 4+	Qty 10+
3.5mm	3W	XC-5120	\$29.95	\$26.95	\$23.95

WEB CAMERAS

High Definition 720p Webcam

Quickly whip up a 720p video for your next website on YouTube. Featuring a five-layer lens, high-resolution CMOS sensor. Can be used for video conferencing or webcam chat.

- HD 720p video recording (Max Resolution 1280 x 720)
- High quality 5MP wide angle lens
- Multi-functional clip
- Built-in high sensitive stereo microphone
- Up to 12MP photo resolution (Software enhanced)
- Multi-utility camera base for CRT, laptop or LCD monitor
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.4+, Linux



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
720p	QC-3203	\$34.95	\$31.45	\$27.90

High Definition 1080p Web Camera

A high resolution web camera for Skyping, making YouTube videos, and other on or offline activities. The unit has an inbuilt mic so you don't have to wrap a clunky headset around your head when video chatting online. It's capable of taking 12MP still images (Software enhanced). The foldable stand allows it to comfortably sit on top of a CRT, laptop or LCD monitor.

- Full HD 1080p Video Recording (Max Resolution 1920 x 1080)
- High quality 5MP lens
- Multi-functional clip with 360° rotation
- Built-in high sensitive stereo microphone
- Snap shot button for image capture
- Up to 12 Mega Pixel image capture. (Software enhanced)
- Built-in microphones with automatic noise reduction
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.4+, Linux



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
1080p	QC-3205	\$44.95	\$40.45	\$35.95

PC AUDIO

PC Desktop Microphone - Omnidirectional

A high quality gooseneck microphone that is ideal for Skype chat, podcasting, video conferencing and music/voice recordings. It has a solid base to provide stability and a flexible neck angle to position it to the optimum position.

SPECIFICATIONS	AM-4089
Mic plug	3.5mm
Cable Length	2m
Impedance	<2.2k ohm
Sensitivity	-58dB±3dB
Frequency	100Hz-16kHz
Directivity	Omnidirectional
Dimensions	355(L) x 9(Dia)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
3.5mm plug 2m	AM-4089	\$15.95	\$14.35	\$12.75

7.1/5.1 USB External Sound Card

To keep costs down, laptops, Ultrabooks and desktop PCs often suffer from poor onboard audio or only include one microphone/audio jack. Achieving good sound is too often neglected when compared to computing power or video performance. Dedicated sound cards offer a way to give a crisp, bassy, more complete sound that will make games and movies far more immersive. This device supports analogue and digital audio for 2.1 to 7.1 speakers. There is digital input/output (TOSLINK) plus analogue input (3.5mm) for connecting tablets, smartphones or MP3 players up. There's also a headphone output for the gamer or stealth movie watcher. Simply connect the sound card to your USB port, connect to your speakers and enjoy the pleasures of superior sound.



SPECIFICATIONS	XC-4905
Inputs	2 x Microphone (3.5mm) 1 x Digital (Optical TOSLINK) 1 x Line In (3.5mm)
Outputs	1 x Headphone (3.5mm) 1 x Digital (Optical TOSLINK) 1 x Front Left/Right Speaker (3.5mm) 1 x Rear Left/Right Speaker (3.5mm) 1 x Surround Left/Right Speaker (3.5mm) 1 x Centre/Subwoofer (3.5mm) 1 x USB 2.0 B (PC Connection)
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, Mac OS X® 10.0+
Dimensions	120(L) x 60(W) x 22(D)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4905	\$59.95	\$53.95	\$47.95

USB MIDI Interface 2m Cable

Connect any MIDI device to your computer: keyboards, controllers, instruments, sound cards, samplers, drum machines etc. Plug and play, no software or drivers required. MIDI in and MIDI out connectors with LED indication.

- Compatible with Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4934	\$29.95	\$26.90	\$23.70

SHOW US YOUR BUILD COMPETITION

Grant, who shops at our Jaycar Bondi store built:



I've designed a concept Condition Monitoring System for use on trains as part of my 'Master of Rolling Stock (railway) Engineering Degree'. This is my makeshift workspace in my 1 bedroom apt that my girlfriend isn't a fan of (see note stuck to screen). Jaycar/Staff have been a huge help in my project

MONTHLY SPECIALS

Look out for our monthly promotions in store now!

KEYBOARDS

Black QWERTY USB Keyboard

This incredibly flat and light QWERTY keyboard is plug & play and simple to use. Change the inclination with the two stands that are discreetly tucked away on the sides.



- Supports API or APM II
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Dimensions: 452(L) x 161(W) x 20(H)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5146	\$10.95	\$9.85	\$8.75

2.4GHz Wireless Keyboard & Mouse

An all-in-one wireless keyboard and mouse solution perfectly suited to home or office PC applications. Features Qwerty keyboard and an ergonomically designed precision mouse with scroll wheel. A nano sized USB receiver is tucked into the base of the mouse for connection to your PC.



- Operating range: Up to 10m
- Operates on the 2.4GHz spectrum
- Mouse: 2 x AAA batteries (included)
- Keyboard: 1 x AAA battery (included)
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Keyboard dimensions: 435(L) x 125(W) x 18(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	Wireless Keyboard & Mouse XC-5174	\$34.95	\$31.45	\$27.95

GAMING ACCESSORIES

USB Gaming Mouse

Every gamer needs one of these 13 button gaming mice with its intuitive design. Dedicated CPI (Count Per Inch) button to adjust pointer speed without the need to go into settings, so you can quickly change sensitivity while in-game. The wire is braided to minimize friction for optimal performance and accuracy, it also prevents annoying tangling. Colour adjustable LEDs illuminate the scroll wheel and gamertech logo. The software includes a colour picker giving you thousands of colouring options. Each of the 13 buttons can be assigned to perform different tasks such as 'shift', 'left alt', open browser, open run prompt or even cut/copy/paste. You can even assign buttons to play recorded macros.

SPECIFICATIONS	XM-5250
Mouse Buttons	13
DPI	400/800/1600/3200/4000
Memory Profiles	5
Cord Length	1.8m
Software Compatibility	Windows 10, 8.1, 8, 7, Vista, XP
Dimensions	118(H) x 75(W) x 39(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM-5250	\$44.95	\$40.45	\$35.95

Gaming Headphones with Adjustable Microphone

A gaming headset designed for hardcore gamers who enjoy many hours of game-play and demand superior gaming audio, clarity, and bass. They are comfortable and adjust to different head sizes, look great and feature a microphone that swivels 120-degrees. The microphone tucks away out of view when not required. The braided fabric audio lead is over 2m long and incorporates a volume control and mic mute switch.

Includes a 2 x 3.5mm to 4 pole adaptor.

- Plug type: 2 x 3.5mm stereo
- Cable length: 2m

HEADPHONE	AA-2126
Driver Diameter	40mm
Frequency Range	20Hz - 20kHz
Sensitivity	114dB ± 3dB
Impedance	320hm
Max. Input power	30mW
MICROPHONE	
Mic. Diameter	6.0 x 5.0mm
Sensitivity	-38dB ± 3dB
Directivity	Omnidirectional

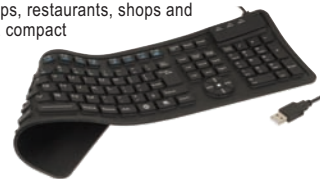


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-2126	\$49.95	\$44.90	\$39.90

Roll Up QWERTY Keyboard

A flexible and virtually indestructible QWERTY keyboard. The moisture-resistant silicone allows you to spill as much as you like with no effect on function. Dropping donut crumbs into more traditional keyboards requires tediously removing keys to clean out the mess. The bendable silicon allows for easy transportation and the material creates a soundless typing experience. Perfect for industrial or wet areas such as factories, labs, workshops, restaurants, shops and food preparation areas. As it rolls up into a compact bundle, it's also ideal for travellers.

- USB interface
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Can be rolled up to 135(H) x 80(Dia)mm
- Laid out dimensions: 405(W) x 135(D) x 10(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5172	\$22.95	\$20.45	\$17.95

Mini Wireless Keyboard with Trackball

Perfect for use as an advanced "remote control" for your Internet enabled TV or home media PC. Navigating through web pages on the big screen from the couch will need more than your standard up/down/left/right remote. This handy keyboard features the full QWERTY key layout and a brilliant little trackball and mouse scrollwheel. It also has those handy media shortcut keys, play, pause, fast forward/rewind and volume controls etc. Operates on the popular 2.4GHz band for easy wireless access. Includes nano sized USB dongle.



- Features a low battery power LED indicator
- Operation range: 9m
- Requires 2 x AAA batteries (included)
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Dimensions: 261(L) x 112(W) x 30(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	Wireless XC-4943	\$59.95	\$53.95	\$47.95

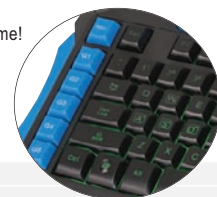
USB Gaming Keyboard

This gaming keyboard provides optimum performance and accuracy when playing high intensity games.

The tangle-free braided cable keeps things organized and prevents kinks, tangles, and snags. With adjustable macro keys and backlit display, no software is required to program. It really is an easy to use USB keyboard for the computer.

Simply immerse yourself in your favourite game!

- Internally Saved User Macro Keys
- Programmable Multimedia Keys
- 7 Colour Backlit Keys
- Breath & Static LED Flashing Modes
- Braided USB Cable



SPECIFICATIONS	XC-5130
Macro Keys	5
Multimedia Keys	8
Backlit Colour	Dark Blue, Light Blue, Green, Red, Purple, Yellow, White
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.0+, Linux
Dimensions	488(L) x 223(W) x 34(H)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5130	\$49.95	\$44.90	\$39.90

USB Keystroke Prankster

Unleash moments of confusion and panic on unsuspecting victims with what appears to be a USB drive. Simply plug it into their computer and it will either randomly type sentences, engage capslock or move the mouse on their PC. Little switches allow you to control the prank option and a dial will adjust the frequency. It's advisable to keep the frequency low to avoid suspicion. PC compatible.

- Prank capslock, keyboard, mouse or mixtures of all three
- Dial to adjust frequency from 5 seconds to 15 minutes
- Dimensions: 34(L) x 17(H) x 7(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE-4300	\$29.95	\$26.95	\$23.95

USB HUBS

A range of USB 2.0 hubs for any budget or application. Powered by the USB port and all include a lead.

USB 2.0 4 Port Star Hub

Star shaped 4 port hub. Compact design to reduce desk clutter with power indication LED.

- Compatible with Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 50(W) x 50(L) x 15(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4302	\$12.95	\$11.35	\$10.35

USB 2.0 4 Port Slimline Hub

Extend the connectivity of your devices with this slimline hub. It's compliant with USB 2.0 specifications and will connect up to 4 x USB 2.0 devices. Additional power can be provided by using a Micro B USB cable to an additional socket on your computer or a USB power supply (not included).

- Interface: USB 2.0 Type-A
- Transfer Speed: 30Mbps
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® 9.0+, Linux
- Dimensions: 106(L) x 32(W) x 10(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4958	\$19.95	\$17.95	\$15.95

USB 2.0 10 Port Slimline Hub

We all have many USB devices that connect to a computer or laptop. But with each new device we obtain, finding a free USB port gets more and more difficult! This is a 10 port USB hub and charger in one, so you can transfer files, and charge devices at up to 1.5A from each port. This unit incorporates BC 1.2 technology which is able to detect your devices fastest charging speed for smartphones and tablets. It has a combined maximum power of 4A, but realistically not everything will be charging at the same time.

Includes a 5VDC, 4A power supply.

SPECIFICATIONS	XC-4959
Interface	USB 2.0 Type-A
Transfer Speed	Up to 30Mbps
Fast Charging	BC 1.2
Power	5VDC, 4A
Cable Length	1.2m
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
Dimensions	157(L) x 30(W) x 21(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4959	\$59.95	\$53.95	\$47.95

See page 362 for our extended range of USB-type power boards

USB 3.0 4 Port Mini Hub

This portable and easy to use 4 Port USB 3.0 Hub offers 10 times faster transfer speed than USB 2.0 devices. Ideal for home, office and travel.

SPECIFICATIONS	XC-4952
Interface	USB 3.0
Transfer Rate	up to 80Mbps
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
Dimensions	61(L) x 61(W) x 10(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC-4952	\$29.95	\$26.95	\$23.70

USB 3.0 Type-C 4 Port Hub

Latest USB 3.0 Type-C connector for the new generation MacBook® and PCs. This 4 port hub expands your computer's connectivity and makes the most of the lightning fast speed. All 4 ports support USB 3.0 Super Speed and at the same time are downward compatible with USB 2.0. Also includes a USB 2.0 Micro B socket for additional power if required.

SPECIFICATIONS	XC-4306
Interface	USB 3.0 Type-C
Transfer Rate	up to 80Mbps
Dimensions	68(H) x 64(W) x 13(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Type-C	XC-4306	\$39.95	\$35.90	\$31.90

USB 3.0 Type-C Hub and Card Reader with Power Delivery

Expand the connectivity of your computer with this card reader and hub combo with USB Type-C plug and power delivery socket. The unique power delivery system enables an existing Type-C power supply to charge your laptop while the hub is connected. It recognises and adjusts the device's specific voltage requirement including 5, 12, 14.5 and 20V to support all laptops. The USB Type-C adaptor provides USB 3.0 speeds and features 2 x USB 3.0 ports, SDXC and microSD card reader slots and a USB Type-C power delivery socket on the back. This is ideal for use with the MacBook® to maximise the connectivity of its singular USB Type-C input.

SPECIFICATIONS	XC-4308
Interface	USB 3.0 Type-C
Inputs	2 x USB 3.0 Type-A Ports, 1 x SDXC Slot, 1 x MicroSD Slot, 1 x USB 3.0 Type-C Power Delivery/Data Port
USB Transfer Rate	up to 80Mbps
Supported Card Size	up to 512GB SDXC, 256GB MicroSD
Power Delivery Profile	4 (20V, 3A Max)
Power Delivery Support	2.0 (V1.1)
Dimensions	81(L) x 52(W) x 15(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB Type-C	XC-4308	\$79.95	\$71.95	\$63.95

MICE

Budget 3 Button Optical Mouse

A low profile, ergonomic 3-button optical mouse. Simple and easy to use.

- Resolution: 1000 DPI
- Zoom-in, zoom-out; page up, page down
- Plug and play
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM-5243	\$9.95	\$8.75	\$7.75

USB 5 Button Optical Mouse

All the normal mouse functions - left and right click, scrolling, plus forward, back and quick-launch button as well as a scroll wheel. Ergonomically shaped for fatigue-free use.

- Resolution: 800/1200/1600
- Plug and play - no drivers required
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM-5241	\$17.95	\$15.95	\$14.35

5 Button Wireless Optical Mouse

A compact, 5 button wireless optical mouse with nano dongle that tucks away neatly into the base. Great for travellers.

- 2.4GHz Wireless
- 1000/1500/2000 DPI conversion with indicator
- 4th and 5th buttons can be custom assigned functions after driver installation
- Multi-stage power saving modes
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM-5248	\$24.95	\$22.35	\$19.70

Computer Mouse Pad

Great tracking for all mice types. Made from a blend of Polyester and Spandex and only 2mm thick.

- Non-skid surface holds the mat in place
- Black in colour
- Dimensions: 260(W) x 200(H) x 2(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XM-5099	\$4.95	\$4.45	\$3.95

MEMORY CARD READERS

Compact USB 2.0 Multi-Card Reader

Designed for convenience this USB multi-card reader is small enough to attach to your keyring. Despite its size it accepts a wide variety of popular formats. To use simply fold out the USB adaptor, fold back for easy storage or travel.

- Fold away USB adaptor
- Supported card formats: MS/MS Pro Duo/ M2/T-Flash/MicroSD/SDHC/SD/MMC/RS MMC/Mini SD
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- Dimensions: 40(L) x 34(W) x 15(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4749	\$12.95	\$11.35	\$10.35

All-in-1 USB 2.0 Card Reader

This USB card reader reads most memory cards in use today, including:

- SD, MicroSD, SD Ultra II, SD Extreme III, MMC, MMC II, MMC 4.0, RS-MMC, HS RS-MMC, MMC Micro, M2, MS, MS Pro, MS Pro Duo, MS Extreme Pro, MS Extreme III Pro, MS Ultra II Pro, HS MS-MG Pro HS MS-MG Pro Duo, MS ROM, MS Select, XD, XD(M), XD(H), CF I & II, CF Ultra II, CF Extreme III, CF Extreme, HS CF & Micro-drive. USB cable included
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 68(L) x 40(W) x 13(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4926	\$19.95	\$17.70	\$15.70

USB 3.0 SDXC/microSD Memory Card Reader

Transfer data between your PC and SD/microSD memory cards with this USB 3.0 card reader which has the ability to read both card slots simultaneously. Powers directly from your USB port and is backwards compatible with SDHC and all older versions of the SD/microSD card formats.

- SD Slot: Secure Digital, Elite Pro SD, Extreme III SD, Gaming Edition SD, Platinum II SD, SD Pro, SDHC, SDXC, SD-Max, SD-Pleomax, SD-Pro C, Super SD, Turbo SD, Ultima I SD, Ultima II SD, Ultimate SD, Ultra High Speed SD, Ultra II SD, Ultra II SD Plus, Ultra SD, Ultra-X SD, OV-RS MMC, High Speed MMC I RS-MMC, MCCmobile, MMC Pro, MMCplus, MMCplus Turbo, RS-MMC
- microSD Slot: microSD (TransFlash), microSDHC

SPECIFICATIONS	XC-4752
Interface	USB 3.0
Transfer Rate	up to 80Mbps
Supported Card Size	up to 512GB SDXC, 256GB microSD
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, Mac® OS X 10.0+, Linux
Dimensions	79(L) x 35(W) x 9(D)mm



▲	Cat.	Qty 1+
USB 3.0	XC-4752	\$14.95

Compact USB3.0 SD/MicroSD Card Reader

Compact yet ultra-fast. It's not much bigger than a thumb-drive, and there's no messy cable. Just plug it into your USB port, slot in your full-size or microSD card, and you're set. No drivers required, and it will read and write at ultra-fast speeds thanks to the USB3.0 data handling. Includes a cap for the USB plug to avoid damage when not in use.



Due June 2017

SPECIFICATIONS	XC-4782
USB Standard	3.0
Compatibility	SD / SDXC / microSD
Dimensions	21(W) x 70(D) x 10(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC-4782	\$16.95	\$14.95	\$13.45

USB 3.0 Memory Card Reader

This card reader accommodates all the mainstream memory cards including the SDXC and CF600x standards.

- Includes 1 x USB 3.0 cable
- Hot swappable
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® X 10.0+, Linux
- Dimensions: 86(L) x 58(W) x 21(D)mm



CF Slot: Compact Flash Type I/II, CF Elite Pro, CF PRO I, CF PRO II, CF Turbo, CF Ultima I, CF Ultima II, Extreme CF, Extreme III CF, HS CF, Ultra II CF

MS Slot: MS, MS DUO, MS PRO, MS PRO DUO, MS MagicGate, MS MagicGate PRO, MS MagicGate DUO, MS MagicGate PRO DUO, Extreme MS PRO, Extreme III MS PRO, Ultra II MS PRO, HS MS MagicGate PRO HS MS MagicGate PRO DUO, MS ROM, MS Select

SD Slot: SecureDigital (SD), Elite Pro SD, Extreme III SD, Gaming Edition SD, Platinum II SD, SD Pro, SDHC, SDXC, SD-Max, SD-Pleomax, SD-Pro C, Super SD, Turbo SD, Ultima I SD, Ultima II SD, Ultimate SD, Ultra High Speed SD, Ultra II SD, Ultra II SD Plus, Ultra SD, Ultra-X SD, DV-RS MMC, High Speed MMC / RS-MMC, MCCmobile, MMC Pro, MMCplus, MMCplus Turbo, RS-MMC

Micro SD / M2 Slot: MicroSD (TransFlash), microSDHC / M2

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC-4757	\$34.95	\$30.95	\$27.95

USB 3.0 Type-C Multi Card Reader

Latest USB 3.0 Type-C connector for the new generation MacBook® and PCs. This multi-card reader expands your computer's connectivity and makes the most of the lightning fast speed. Supports SDXC, SDHC, microSD and CompactFlash card slots.

Supported Memory Cards:

- SD Slot: SecureDigital (SD), Elite Pro SD, Extreme III SD, Gaming Edition SD, Platinum II SD, SD PRO, SDHC, SDXC, SD-Max, SD-Pleomax, SD-Pro C, Super SD, Turbo SD, Ultima I SD, Ultima II SD, Ultimate SD, Ultra High Speed SD, Ultra II SD, Ultra II SD Plus, Ultra SD, Ultra-X SD, DV-RS MMC, High Speed MMC / RS-MMC, MCCmobile, MMC Pro, MMCplus, MMCplus Turbo, RS-MMC
- microSD Slot: microSD (TransFlash), microSDHC, microSDXC
- CompactFlash Slot: CompactFlash Type I/II, CF Elite Pro, CF Pro I, CF Pro II, CF Turbo, CF Ultima I, CF Ultima II, Extreme CF, Extreme III CF, HS CF, Ultra II CF

SPECIFICATIONS	XC-4751
Interface	USB 3.0 Type-C
Transfer Rate	up to 80Mbps
Supported Card Size	up to 512GB SDXC, 256GB microSD, 256GB CompactFlash
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.4+, Linux
Dimensions	69(L) x 63(W) x 14(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0 Type-C	XC-4751	\$39.95	\$35.90	\$31.90

Wi-Fi Multi Card & USB Reader

This clever device creates a secure Wi-Fi hotspot so you can share and transfer files from your memory cards and USB storage devices wirelessly between your computers, Tablets, and Smartphones. It has an internal rechargeable battery so you can use it for up to 3 hours without power. If you connect a 3G USB dongle the device will become a 3G router allowing internet access for Wi-Fi devices. It has been tested on HDD up to 1TB. Supplied with USB to Micro-B USB power/charge cable. Up to 20m Wi-Fi range

- Simultaneously read/write - CF, SD, MS, M2, TF and microSD
- Simultaneously read/write to 3 USB devices
- Up to 8 users can access simultaneously
- 1000mAh rechargeable battery for up to 3 hours wireless use
- Dimensions: 105mm x 65mm x 11mm



▲	Cat.	Qty 1+
Wi-Fi	YN-8426	\$59.95

DISCOUNT TRADE CARD



If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to

substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type and quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

MEDIA - DVDS

DVD 8.5GB DUAL LAYER 8X
Verbatim DataLifePlus (AZO)



XC-4744 & XC-4743

DVD-RW 4.7GB SINGLE 2X
DataLifePlus (SERL)
DVD-RW4.7GB



XC-4732

DVD+RW 4.7GB SINGLE 4X
Verbatim DataLifePlus
(SERL) DVD+RW



XC-4734

DVD+R 4.7GB 16X
Verbatim DataLifePlus
(Azo) DVD+R



XC-4733

**DATALIFEPLUS (AZO)
DVD-R 4.7GB 16X**



XC-4731



		Cat.	Qty 1+	Qty 10+
DVD+RDL	8x	XC-4744	\$3.95	\$3.35
DVD-RDL	8x	XC-4743	\$3.95	\$3.35
DVD-RW	2x	XC-4732	\$2.00	\$1.70

		Cat.	Qty 1+	Qty 10+
DVD+RW	4x	XC-4734	\$2.00	\$1.70
DVD+R	16x	XC-4733	\$1.10	\$0.90
DVD-R	16x	XC-4731	\$1.10	\$0.90

**DVD+R DL 8.5GB 8X
SPINDLE 10 PACK**



XC-4746

**DVD 4.7GB INKJET
PRINTABLE 50 SPINDLE 16X**



XC-4738



XC-4745



		Cat.	Qty 1+
DVD+R DL	8x 10 Pack	XC-4746	\$32.95
DVD-R	16x 50 Disks	XC-4738	\$32.95
DVD+R	16x 50 Disks	XC-4745	\$32.95

MEDIA - CD

**DATALIFE 80MIN 700MB
CD-R JEWEL CASE SINGLES 52X**



XC-4707

**DATALIFEPLUS CD-R 80MIN/700MB INKJET
PRINTABLE 50 PACK SPINDLE 52X**



XC-4718



		Cat.	Qty 1+	Qty 10+
CD-R	52x	XC-4707	\$1.45	\$1.20
CD-R	52x 50 Disks	XC-4718	\$26.95	

MEDIA - SD CARDS & FLASH DRIVES

Class 10 microSDHC Card with SD Adaptor

- Speed: Class 10 (UHS - 1)
- Includes SD adaptor for normal SD card slots



Call or see website
for latest pricing

Due May 2017



		Cat.	Qty 1+
8GB	Class 10	XC-4983	\$12.95
16GB	Class 10 (UHS-1)	XC-4989	\$19.95
32GB	Class 10 (UHS-1)	XC-4992	\$34.95
64GB	Class 10 (UHS-1)	XC-4993	\$59.95
128GB	Class 10 (UHS-1) NEW	XC-4977	\$149.00

64GB Pro+ microSDXC Card for 4K Recording

Designed for photos and videos up to 4K recording.

- Water, shock and temperature resistant
- Includes SD adaptor for normal SD card slots
- Up to 90MB/s read, up to 80MB/s write



Call or see website
for latest pricing



Due May 2017

		Cat.	Qty 1+
64GB	4K Pro+ Class 10 (UHS+1)	XC-4978	\$99.95

SPECIAL NOTE RE MEDIA PRICES

When the ink dries at the catalogue printers, the prices are set for the life of the catalogue - 12 months. The price of media (ie. SD cards, flash drives, DVD etc) rarely stays fixed for more than a few months. If you think some of the prices shown on these pages are a bit high, don't be dismayed. The prices have probably changed - downwards! Check with your local store or online for the latest price.

MEDIA - BLU-RAY

BLU-RAY DISCS 25GB SINGLE



		Cat.	Qty 1+
BD-R	4x	XC-4747	\$4.25
BD-RE	2x	XC-4748	\$7.95

Slimline CD/DVD Mailing Sleeve

Mail your precious CDs without fear of damage with this flexible clam style protector. The mailer has a clear window and centering spigot to securely hold the CD in place. Measures 125mm x just 4.5mm thick which won't crack and break like the average jewel case.

- Colour is opaque



		Cat.	Qty 1+
Pack of 10		AR-1480	\$6.95

CD/DVD Jewel Cases For Single Disk

Replacements CD case for those that break or wear out.

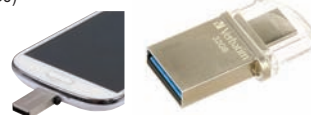


		Cat.	Qty 1+
Pack of 5		AR-1470	\$3.95

OTG USB Flash Drives

USB Flash Drive features OTG (On-the-Go) to transfer data from your laptop or PC to your Android® device and vice versa. Extremely lightweight, and feature a USB connector on one end and a micro USB connector on the opposite end.

- Dimensions: 28.1(L) x 12.25(W) x 4.5(D)mm



Smartphone not included



		Cat.	Qty 1+
16GB		XC-5622	\$24.95
32GB		XC-5624	\$39.95

USB Flash Drives

High speed USB flash drives for conveniently backing up data and quickly transferring files. They feature secure data protection and high reliability.

- Plug and Play
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux



		Cat.	Qty 1+
8GB	USB 2.0	XC-5616	\$8.95
16GB	USB 2.0	XC-5617	\$14.95
32GB	USB 2.0	XC-5618	\$24.95
64GB	USB 2.0	XC-5619	\$39.95
128GB	USB 3.0 NEW	XC-5625	\$99.95



LAPTOP COOLING - USB POWERED

Dual Fan Notebook Cooling Fan

Prevents your notebook from overheating on your lap or desk. Features a double 140mm fan and 2 USB ports. It is super silent and you will hardly notice it is there. Incredibly simple to use, just plug into your USB port and away you go! Also includes a push button on and off switch.

- Unique non slip design
- Rated voltage: 5VDC
- Dimensions: 365(L) x 295(W) x 40(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Dual Fans	XC-5211	\$17.95	\$16.15	\$14.35

Universal CPU Cooler with PWM Fan

This low noise top flow design cooler contains a silent 80mm fan with an intelligent PWM (Pulse Width Modulation) control. It is compatible with most widely used Intel® and AMD motherboard CPU socket types, and has the cooling power to make sure your CPU runs smoothly. Its compact size makes it ideal for HTPC and small chassis PCs. Mounting kit provided.

Compatibility:
Intel® Socket: 775, 1155, 1156, Pentium® D/ Pentium® 4 / Celeron® D, Pentium Dual-Core, Core 2 Quad/Core 2 Duo, Core i3/i5
AMD Socket: 754/939/AM2/AM2+/AM3/AM3+/FM1, CPU up to TDP 82W, Athlon 64 X2, Athlon 64, Athlon II, Opteron, Sempron

SPECIFICATIONS	YX-2588
Bearing	Hydro Dynamic Bearing
Fan Speed	900-2200RPM
Air flow	30.5 CFM / 51.85 m³/h
Noise Level	10-22.5dBA
Current	0.13A
Voltage	12VDC
Power Consumption	1.56W
Max Cooling Performance	82W
Connector	4 pin PWM
Cable Length	250mm
Fan Diameter	80mm
Dimensions	120(L) x 96(W) x 66(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
CPU Cooler	YX-2588	\$24.95	\$22.50	\$19.95

HARD DRIVE POWER CABLES

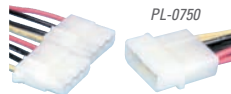
Serial ATA / SATA / eSATA Power Cables

A range of SATA and eSATA data/power cables for use with personal computers and external serial ATA devices.

4 PIN POWER SPLITTER CABLE

Standard 4 pin power splitter for PC

- 1 x HDD plug to 2 x HDD sockets Cat. PL-0750



SERIAL ATA LEAD 7 PIN PLUG

Transfer data between your Serial ATA hard drive and serial ATA interface, at rates up to 150Mbps. Thinner, smaller and more versatile than the Parallel ATA Standard. Length: 500mm Cat. PL-0978



7 PIN TO 7 PIN SATA

- Colour: Red
- Length: 1 metre Cat. PL-0980



STRAIGHT TO RIGHT ANGLE SATA

- Colour: Red
- Length: 1 metre Cat. PL-0981



HDD POWER TO 2 X SATA

- Power two SATA devices from one 4-pin male Molex connector.
- Length: 200mm Cat. PL-0759



HDD POWER TO 1 X SATA

- Power a SATA devices from a 4-pin male Molex connector.
- Length: 200mm Cat. PL-0758



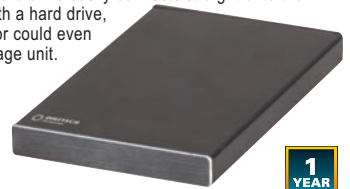
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
HDD power to 2 HDD Sockets	PL-0750	\$4.95	\$4.45	\$3.90
SATA to SATA	PL-0978	\$5.95	\$5.25	\$4.75
SATA to SATA	PL-0980	\$7.95	\$6.95	\$6.25
SATA RA to SATA	PL-0981	\$7.95	\$6.95	\$6.25
HDD power to 2 x SATA power	PL-0759	\$7.95	\$6.95	\$6.25
HDD Power to SATA	PL-0758	\$5.95	\$5.25	\$4.75

EXTERNAL HDD ENCLOSURES

2.5" USB 2.0 External HDD Case

Instantly add gigabytes of storage to your computer or move large amounts of data from one computer to another. This external hard drive case has a USB 2.0 interface and will accept a standard 2.5" hard drive or SSD. The precision case does away with the awkward ribbon cable and the hard drive easily connects straight onto the PCB mounted connector. When fitted with a hard drive, this unit makes an ideal backup device or could even be used as a portable digital image storage unit.

- Interface: USB 2.0
- HDD Size: up to 2TB Hard Drive
- Transfer Rate: up to 30Mbps
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.4+, Linux
- Dimensions: 126(L) x 76(W) x 12(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4681	\$19.95	\$17.70	\$15.70

2.5" USB 3.0 SATA HDD Enclosure

Protect and transport your valuable data with this hard disk drive(HDD) case. The aluminium case accommodates a standard 2.5" HDD (up to 2TB capacity) and features a micro-B USB 3.0 socket. Experience ultra fast data transfer speeds up to 10 times faster than USB 2.0. The blue LED on the rear of the unit indicates when data is transferring. Super fast and easy installation – simply open the cover, connect the drive and secure the cover back in place. Also includes a lead to connect the drive to your computer via the USB port. A good solution for transferring data between multiple users or devices quickly.

- Interface: USB 3.0
- HDD Size: up to 2TB Hard Drive
- Transfer Rate: up to 80Mbps
- Dimensions: 130(L) x 80(W) x 13(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC-4686	\$29.95	\$26.95	\$23.95

3.5" USB 2.0 External HDD Case

Accommodates a 3.5" SATA drive up to 3TB in storage capacity. Lightweight aluminium case for increased portability.

- USB 2.0 transfer rate up to 480Mbps
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 183(D) x 117(W) x 31(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4669	\$44.95	\$40.45	\$35.90

3.5" USB 3.0 SATA HDD Enclosure

Backup your data faster and carry it in style with this slick, black external HDD enclosure. Wait less do more, a USB 3.0 connection transfers data between computer and device up to ten times faster than a USB 2.0 connection.

SATA I/II/III support means you can take advantage of the latest HDDs on the market or make use of your old, disused SATA HDDs. Installation is easy, just two screws to remove the back panel and no cables inside. Supplied with a desk stand and power supply.

- Plug 'n' Play
- Hot swappable
- For 3.5" HDDs only (not included)
- Supports SATA I/II/III
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC-4667	\$59.95	\$53.95	\$47.95

CLEANING SYSTEMS

CD/VCD/DVD Lens Cleaner

If you experience jumping, loss of quality or disc failure, then it's probably because your lens are dirty. This easy to use laser lens cleaner not only cleans your CD or DVD equipment, but it also shows a short animation while you wait. Supplied in a jewel case.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AR-1416	\$11.95	\$10.70	\$9.50

HDD ADAPTORS

1TB 2.5" Internal Notebook Hard Drive

A 5200RPM 1TB internal hard drive ideal for laptops, network attached stored devices, game consoles or, media players. It uses 500GB per platter technology and has superior energy efficiency as well as improved acoustic performance at a maximum of 19dB in idle mode and 24dB during seek operations.

• SATA3

See page 426 for a 2TB Surveillance HDD



SPECIFICATIONS	XC-5680	POWER REQUIREMENTS	
Rotational speed	5200RPM	Voltage	5V
Transfer Rate to Host	3Gbps	Spin up (start) Power	4.5 watts
Idle acoustics	19dB	Seek Power	1.85 watts
Seek acoustics	24dB	Read/Write Power	1.5 watts
Buffer Cache	8MB	Low Power Idle	0.55 watts
Dimensions	69.85(W) x 100(D) x 9.5(H)mm	Standby Power	0.18 watts
Weight	112g	Sleep Power	0.15 watts

	Cat.	Qty 1+
1TB 2.5" SATA	XC-5680	\$119.00

SATA to USB 3.0 Adaptor

If you are a downloading enthusiast or an IT professional who has accumulated a number of hard drives over the years and want a simple way to access them temporarily this adaptor is the perfect tool. When used with most enclosures and adaptors, SATA hard drives and solid state drives are limited by the speed of USB 2.0. This new USB 3.0 adaptor will take full advantage of the max speed of SATA (3.0Gbps). Transfer files or clone drives in a fraction of the time. Please note your PC must have a USB 3.0 port to support these speeds. Combine with the XC-4149 3.5" HDD enclosure (sold separately) for an easy, convenient backup solution.

- Fully compliant with USB 3.0 specifications
- Backward compatible with USB 2.0
- Includes USB 3.0 cable and mains adaptor
- Compatibility: Windows 8.1, 8, 7, Vista, XP, 2000, Mac OS® 9.0+, Linux
- Dimensions: 71(L) x 21(W) x 13(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC-4149	\$39.95	\$35.95	\$31.95

DOCKING STATIONS

USB 2.0 External SATA HDD Docking Station

Allows you to dock any 2.5" or 3.5" SATA hard drive for easy transfer of files. Just slide the hard drive into the dock and it will mount as an available volume on your Windows® or Mac® operating system. A great tool for those who regularly clone drives or need to easily swap or check the contents of SATA drives. Supports hard drive hot swapping.

- Up to 480Mbps transfer rate with USB 2.0
- Up to 3Gbps transfer rate with eSATA
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, Mac OS X® 10.0+, Linux
- Dimensions: 165(W) x 110(D) x 102(H)mm

Hard Drive not included



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4690	\$39.95	\$35.95	\$31.95

USB 3.0 External SATA HDD Docking Station

This device allows you to connect a SATA 3.5" or 2.5" hard drive into a USB port.

Great for any computer, but even better for a notebook without any physical means to install one.

It creates a fully plug and play compatible method to access any compatible hard drive.

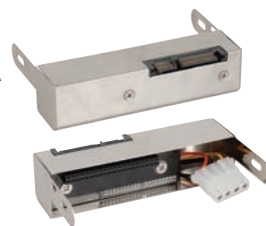


SPECIFICATIONS	XC-4698
Interface	USB 3.0 B
HDD Size	3.5" Up to 10TB, 2.5" Up to 4TB
Transfer Rate	Up to 80Mbps SATA: III (6G)
Power	12V, 2A
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® 9.0+, Linux
Dimensions	138(W) x 78(D) x 65(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC-4698	\$49.95	\$44.95	\$39.95

IDE to SATA HDD Upgrade Panel

Clip this onto the end of an old 3.5" IDE hard drive and the drive can then be used in our SATA HDD docks or inside personal computers that lack IDE data and power connectors. A simple method for upgrading IDE drives.



- Dimensions: 105(W) x 25(H) x 62(D)mm
- Compatible with: Maxtor, Samsung, IBM, Hitachi, Seagate Hard drives

	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-4970	\$19.95	\$17.70	\$15.70

SATA/IDE to USB 2.0 Hard Drive Adaptor

Perfect tool to backup, or transfer large amount of data from one drive to another. Manual hard drive replacement is often labourious and time consuming. This IDE / SATA to USB 2.0 adaptor makes the job whole lot easier and faster with this set of cables designed to connect your SATA or IDE drive external through a USB 2.0 adaptor. It supports 2.5", 3.5" SATA and IDE devices and operates with one IDE and one SATA HDD simultaneously.

Package includes:

- 1 x USB2.0 to IDE+SATA converter
- 1 x USB 2.0 cable
- 1 x 4Pin Power cable
- 1 x 12V/2A power adaptor

- USB version 2.0 compliant
- SATA II version 1.0a compliant
- USB Mass Storage Class Bulk- Only Transport Specification Compliant
- Dual-Head IDE Connector (40pin and 44pin) plus one SATA II connector
- HDD Support: IDE 2.5" HDD, IDE 3.5" HDD, SATA 2.5" HDD, SATA 3.5" HDD, IDE 5.25" CD/DVD Drives
- Compatibility: Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS® X 10.0+, Linux
- USB cable length: 800mm
- Power Adaptor cable length: 1.5m
- Dimensions: 85(L) x 65(W) x 20(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 2.0	XC-4150	\$44.95	\$40.45	\$35.90

USB 3.0 Dual 2.5/3.5" SATA HDD Docking Station

Hard drive docking stations provide PC users with the ability to quickly and easily backup valuable data, access old drives, clone, format and debug disk problems. They're a great tool to have around the home or office. This unit provides two SATA docking ports that can accommodate either two 3.5" or 2.5 inch SATA drives or one of each depending on your application. It is USB 3.0 ready so all your disk operations will perform up to ten times faster than on older USB 2.0 docks. High speeds and the convenience of dual docks means less time backing up.



SPECIFICATIONS	XC-4697	Hard Drive not included
Interface	USB 3.0	
Transfer Rate	up to 80Mbps	
HDD Size	3.5" - Up to 6TB, 2.5" - Up to 2TB	
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, Mac OS® 9.0+, Linux	
Dimensions	130(W) x 61(H) x 103(D)mm	



	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.0	XC-4697	\$79.95	\$71.95	\$63.95

USB 3.1 Type-C SATA HDD Docking Station

Quickly connect an internal SATA drive to any USB Type-C equipped notebook or computer. The drive slot accepts 2.5" and 3.5" drives. The ultra-high speed USB3.1 provides up to 430Mbps transfer rates, so even your high speed drives can be used effectively. Plug and play operation, suitable for use on Windows or Mac™. Backwards compatible (USB 3.0, 2.0, 1.1).



SPECIFICATIONS	XC-4672
Interface	USB 3.1 Type-C
Transfer Rate	Up to 430Mbps
SATA	6G
HDD Size	3.5" - Up to 10TB, 2.5" - Up to 4TB
Dimensions	138(W) x 78(D) x 65(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
USB 3.1 Type-C	XC-4672	\$79.95	\$71.95	\$63.95

MAINS LAPTOP POWER SUPPLIES

Buying an extra power supply saves the hassle of taking the power supply everywhere you take your laptop. Keep one at the office and one at home. The original power supply on your laptop may have failed, so get a replacement at a fraction of the cost of a genuine part. There's a model compatible with most laptops or netbooks on the market. See our website for compatibility charts.

Manual Type: switch the output voltage to suit your laptop
Automatic Type: models switch voltage automatically depending on the connector used

Some models display the voltage on a LED or LCD display.

- All models feature short circuit and overload protection
- 1 Year warranty on all laptop supplies



60W Type-C Automatic



MP-3340

65W - Slimline Suits Ultrabook™ - Fixed



MP-3321

90W - Manual



MP-3476

90W - Automatic



MP-3326

90W - Slimline - Fixed



MP-3332

120W - Slimline - Fixed



MP-3329

144W - Manual



MP-3471

See page 364 for our Battery Bank with 19V Output for laptops

SPECIFICATIONS	MP-3340	MP-3321	MP-3476	MP-3326	MP-3332	MP-3329	MP-3471
Input voltage	100 - 240VAC	100 - 240VAC	110 - 240VAC	100-240VAC	100 - 240VAC	100 - 240VAC	100 - 240VAC
Power output	60W	65W	90W	90W	90W	120W	144W
Output voltages	5/12/14/15/20VDC	19VDC	12/14/15/16/18/18.5/19/19.5/20/21/22V	15/16VDC, 19VDC	19VDC	19VDC	15/16, 18/19, 20, 22, 24
Output voltage selection	Automatic	Fixed	Manual	Automatic	Fixed	Fixed	Manual
Output current	3A	3.15A	12V @ 6A, 14-16V @ 5A, 18-20V @ 4.5A, 21-22V DC @ 4A	15/16V 4.7A, 19V 4.2A	4.4A	5.7A	8.5A, 8.0A, 7.5A, 6.5A, 6.0A
USB Output	5VDC @ 2A	1A	-	2.1A	2.1A	2.1A	-
Plugs	1	8	9	11	11	7	9
Dimensions (L)x(W)x(H)	112 x 69 x 16mm	113 x 56 x 15mm	150 x 58 x 37mm	126 x 55 x 31mm	110 x 70 x 16mm	123 x 75 x 19mm	180 x 63 x 40mm

▲ Wattage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
60W	Auto	MP-3340	\$89.95	\$80.95	\$71.95
65W	Fixed - Slim	MP-3321	\$59.95	\$53.95	\$47.95
90W	Manual	MP-3476	\$74.95	\$67.50	\$59.95

▲ Wattage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
90W	Auto	MP-3326	\$84.95	\$76.45	\$67.95
90W	Fixed - Slim	MP-3332	\$89.95	\$80.95	\$71.95
120W	Fixed - Slim	MP-3329	\$109.00	\$97.95	\$86.95
144W	Manual	MP-3471	\$119.00	\$106.95	\$94.95

SELECTING OUR LAPTOP POWER SUPPLIES

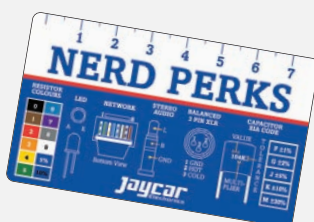
TECH TALK

Looking at our large range of laptop power supplies, it might be a little overwhelming when trying to decide which is the best one to choose, but really it's quite simple. The easiest way to work out what you need it to look at the rating label on your original laptop power supply, and take note of the OUTPUT voltage and current (for example, 20V and 3.25A). Now multiply these together to get the POWER rating you need (in our example, 20 x 3.25 = 65 Watts). Then you just need to select a model that has an equal or higher power rating to your original power supply, in our given example this would be MP-3321 65W Universal Slimline Laptop Power Supply. Then it's just a matter of checking that the selected model is compatible with your brand of laptop, which can be done by looking on our website.

But if all this is too confusing - never fear, just bring your laptop and the old power supply into your nearest store and our friendly staff will assist.

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store*
 & be rewarded with a \$25 Jaycoins Card once you reach 500 points!
 Sign-up in-store or online.



*Conditions apply. See front of catalogue for details

IN-CAR LAPTOP POWER SUPPLIES

Keep your laptop or netbook charged on the road. Models to suit most of the mini computers on the market. Check website for compatibility.

90W Automatic Mini Car Laptop Power Supply

This ultra-compact laptop charger achieves its small size by storing its electronics inside the lighter plug. It is supplied with 12 of the most common DC connectors and the output voltage is automatically selected when you attach the plug that fits your computer. Will supply up to 90 watts output power.

SPECIFICATIONS	MP-3334
Input Voltage	12VDC
Output Voltage	14.5 - 20VDC
Output Current	3 - 4.7A
Power Output	90W
Dimensions	85(L) x 26(Dia)mm



▲ Wattage	Cat.	Qty 1+	Qty 4+	Qty 10+
90W	MP-3334	\$59.95	\$53.95	\$47.95

150W - Manual Cat. MP-3472

SPECIFICATIONS	MP-3472
Input voltage	12VDC
Power output	150W
Output voltages	15, 16, 18, 19, 20, 22, 24VDC
Output voltage selection	Manual
Output current	6A
Plugs	9
Dimensions	115(L) x 60(W) x 35(H)mm



▲ Wattage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
150W	Manual	MP-3472	\$74.95	\$67.50	\$59.95

UNINTERRUPTIBLE POWER SUPPLIES (UPS) - AC

Critical systems should ideally be connected to some form of backup power in the event of a blackout, power surge or brownout. A fault at the grid may drop the voltage at the mains, which could cause some systems to shutdown, reset, lose data or worse, resulting in thousands of dollars of damage (both material and immaterial). These line interactive units give you a good balance between real time system

protection and power redundancy when mains electricity is down or experiencing reliability issues. During mains voltage sags both units will deliver a steady voltage, keeping critical systems running properly. For a total power blackout the units can keep your systems running long enough to save important data or cleanly shutdown connected devices.

UPS BACKUP TIME TEST RESULTS

COMPARISON GUIDE

	Maximum Load			Backup Mode		Backup time - Typical		
	VA	W	Internal SLA Battery	Output Waveform	Transfer Time (mS)	Small PC (65W-70W)	Medium PC and LCD Monitor (130W-140W)	Large PC plus LCD Monitor (190W-210W)
MP-5224	600	300	12V/7Ah	Modified Sine Wave	< 10	31 mins	11 mins	4.5 mins
MP-5205	650	390	12V/7Ah	Modified Sine Wave	< 10	25 mins	9 mins	5 mins
MP-5207	1500	900	12V/9Ah	Modified Sine Wave	< 10	94 mins	49 mins	31 mins

Line Interactive UPS - 600VA

This self contained UPS is ideal for the home PC, point of sale machines, or workstations and peripherals. Features include intelligent CPU control, highly synchronous transfer (less than 6ms), automatic battery charging in UPS off mode, surge protection, voltage overload/low voltage protection and much more. There is a USB socket for connecting to your PC and software is provided to enable automated shut down, as well as RJ12 sockets for telephone protection.



SPECIFICATIONS	MP-5224
Rating	600VA 300W
SLA Battery	12V/7.0Ah battery
Supply Voltage / Output Voltage	100-240VAC / 100-240VAC
Backup time	Up to 5 mins
Switch over time	<6ms
Noise	<45db (at 1 metre)
Recharge time	90% capacity after 8 hours
Output waveform	Sine Wave (Mains), Modified Sine Wave (Battery)
Power outlets	3 UPS, 3 Mains (all surge protected)
USB Output / RJ12 input-Output	1 / 1
Software Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Linux
Dimensions	280(W) x 185(D) x 95(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
300W - 600VA	MP-5224	\$139.00	\$124.95	\$110.95

Line Interactive UPS with LCD - 650VA & 1500VA

Features an auto shutdown when no load is detected, audible alarms for low battery, self diagnosis on boot, and intelligent battery management. Both models feature an easy to read LCD which displays battery and load values as a percentage and input/output voltages. At the rear of the unit are 2 x RJ11 sockets for Telephone/Fax protection and a USB socket for connection to your PC for use with the power management software.



SPECIFICATIONS	BOTH MODELS	
Usage	Home PC, SOHO	
Type	Line interactive	
Status Display	LCD	
Backup time full load Mins	10 - 20 minutes	
Input voltage	180 - 230VAC	
Mains connections	2 (input and output)	
Recharge time	90% Capacity after 8 Hours	
Communication	USB	
Frequency	50Hz	
Software Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Linux	
SPECIFICATIONS	MP-5205	MP-5207
Short circuit protection	Yes	No
Internal SLA battery	1 x 12V 7Ah	2 x 12V/8Ah
Dimensions	340 (L) x 95(W) x 165(H)mm	325(L) x 125(W) x 220(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
360W - 650VA	MP-5205	\$139.00	\$124.95	\$110.95
900W - 1500VA	MP-5207	\$319.00	\$285.00	\$255.00

RACK MOUNT PDU & PATCH PANELS

6 Way PDU with Surge & Overload Protection



Power up to six components in your rack setup. The board has 6 conventional 240V outlets and fits any standard 19" rack. It actually takes a little more than one rack unit, but mounts on 1U centres.

- 1U rack space
- 10A output
- Overload protected
- Lead length: 1.6m
- Surge Protection
- Dimensions: 482(W) x 46(H) x 46(D)mm

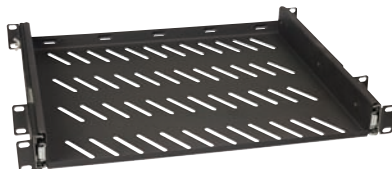


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	MS-4094	\$69.95	\$62.95	\$55.95

Ball Bearing Sliding Rack Shelf

Ideal for mounting computer keyboards or other equipment that needs to be accessed easily. The slides have ball bearing runners for smooth operation & will take a load of 20kg.

- Dimensions: 483(W) x 52(H) x 350(D)mm



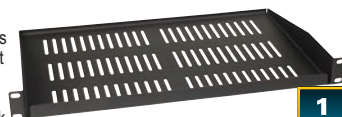
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	HB-5450	\$99.95	\$89.95	\$79.95

AUTOMATIC ACCOUNT

For Schools, Government Departments,
Public Companies, Radio & TV Stations

Fixed 19" Rack Shelves

Each shelf is punched with ample slots for ventilation and a folded return front and rear to take loads of up to 20kg. Solid steel construction, black powder coated finish. Suits Swing Frame Rack Mount Cabinets (HB-5180/HB-5182) only.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
1U - 483(W) x 45(H) x 305(D)mm	HB-5452	\$49.00	\$43.95	\$38.95
2U - 483(W) x 89(H) x 380(D)mm	HB-5454	\$69.00	\$61.95	\$54.95

Rack Cable Supports

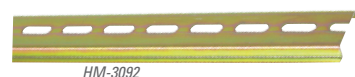
Takes the pain out of wiring and fault-finding rack cabinets. Your cables are kept organised and neat, with the support also providing strain relief.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
1U - 483(W) x 45(H) x 62(D)mm	HB-5430	\$24.95	\$22.35	\$19.70
2U - 483(W) x 89(H) x 82(D)mm	HB-5432	\$29.95	\$26.90	\$23.70

DIN Rail

Metal DIN rail, standard size for mounting power supplies, relays, terminals etc. 1 metre length.



Enclosure Mounts for DIN Rail

Makes mounting standard enclosures onto standard DIN rails easy. Supplied as a pair with self tapping screws.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
DIN Rail - 1 metre	HM-3092	\$12.95	\$11.35	\$10.35
Enclosure Mounts for DIN Rail	HM-3094	\$14.95	\$13.45	\$11.95

19" RACK MOUNT CABINETS & PARTS

19" Rack Mount Cabinets

Ideal for studios, PA, sound reinforcement, IT, or phone systems installations, with a size and configuration to suit any application. Coupled with our wide range of accessories and options, these 19" rack cabinets offer outstanding features. All come in 1.8mm solid steel powder coated cabinets with clear tempered glass doors. The sides can be removed for installation or maintenance access and all panels are key-lockable.



- High strength and rigidity under load
- Contemporary design
- Lift off side panels
- Top or bottom cable entry
- Cooling fan hole
- Camlock closures
- Front, sides and back lock separately
- Wall mounting without brackets
- Static loading capacity 60kg



6U
Available flat packed or assembled
Dimensions: 530(W) x 360(H) x 450(D)mm
Flat Packed: Cat HB-5170
Assembled: Cat HB-5171

12U
Dimensions: 530(W) x 626(H) x 450(D)mm
Cat HB-5174

Swing Frame Rack Mount Enclosure

Swing frame enclosures allow you to access the rear of your rack system for maintenance or easier installation. Tempered glass doors and locking panels all round. 6 or 12 unit enclosures available.

6U
• Dimensions: 600(W)
x 380(H) x 610(D)mm
Cat HB-5180



12U
• Dimensions: 600(W)
x 630(H) x 610(D)mm
Cat HB-5182



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	6U Rack Mount - Flatpacked	HB-5170	\$179.00	\$160.95	\$142.95
	6U Rack Mount - Assembled	HB-5171	\$199.00	\$178.95	\$158.95
	12U Rack Mount - Flatpacked	HB-5174	\$239.00	\$209.00	\$189.00
	6U Swing Frame Rack Mount	HB-5180	\$269.00	\$239.00	\$209.00
	12U Swing Frame Rack Mount	HB-5182	\$349.00	\$309.00	\$279.00

Rack Cabinet Panels

Quality brushed anodised panels with a black finish.



▲	Finish	Size	Cat	Qty 1+	Qty 4+	Qty 10+
	Black	44mm 1U	HB-5404	\$16.95	\$14.95	\$13.35
	Black	88mm 2U	HB-5405	\$24.95	\$22.35	\$19.70
	Black	132mm 3U	HB-5406	\$29.95	\$26.95	\$23.95

19" Rack Blank Panels

Blank panels for filling in unused space or configuring panels to your own requirements. Black powder coated steel, 1or 2 unit, vented or plain. The vented panels are also useful at the back of rack enclosures for attaching wiring looms to.

1U BLANK
• Dimensions: 483(W) x 45(H)mm
Cat HB-5420

1U BLANK VENTED
Cat HB-5424



2U BLANK
• Dimensions: 483(W) x 89(H)mm
Cat HB-5422

2U BLANK VENTED
Cat HB-5426

▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	1U Blank Panel	HB-5420	\$10.95	\$9.85	\$8.75
	2U Blank Panel	HB-5422	\$12.95	\$11.35	\$10.35
	1U Vented Blank Panel	HB-5424	\$18.95	\$16.95	\$14.95
	2U Vented Blank Panel	HB-5426	\$27.95	\$24.95	\$22.35

Pro Grade 19" Rack Style Equipment Enclosures

Complies with IEC 297 / EIA RS-310 C-1977 / DIN 41494 standards. Each cabinet is made from phosphated steel and coated with a dark grey enamel. The colour matched rack front panel is in 3mm aluminium with extruded handles (excluding 1U). The rear panel is aluminium as well. The top, bottom and sides of each cabinet are liberally punched with ventilation holes.



All screw fasteners are metal thread - not self tappers. Top, bottom, front and rear of enclosure can be separately removed without affecting the integrity of the cabinet. Each enclosure comes with punched internal rail bars to facilitate PCB, transformer, filter capacitor etc, mounting independent of cover panels. Each cabinet also features an internal sub panel (in 1.5mm enamelled aluminium) which is adjustable from 0-20mm from the back of the front panel. This panel is ideal for mounting panel hardware (no screws need appear on front panel). Rear panel is also adjustable 0-20mm inwards.

- The entire cabinet is packed flat for convenient transport. Rubber mounting feet are provided.

DIMENSIONS (mm)	1U	2U	3U
Panel height	44	88	133
Cabinet height	39	84	128
Cabinet depth	245	335	335
Width	482.6	482.6	482.6



▲	Cat	Qty 1+	Qty 4+	Qty 10+
1 unit enclosure	HB-5120	\$74.95	\$67.45	\$59.95
2 unit enclosure	HB-5125	\$119.00	\$106.95	\$94.95
3 unit enclosure	HB-5130	\$139.00	\$124.95	\$110.95

Rack Panel Accessories

A range of accessories to complete your rack system - blank panels for filling in space, vent panels and panels for fans or mic sockets, braked castors and feet for keeping it all where you want it. Panels are black powder coated steel, 1, 2 or 3 unit.

1U 12 X XLR SOCKET PANEL
• Dimensions: 483(W) x 45(H)mm
Cat HB-5436



UNIVERSAL BRAKED CASTORS

- Ball bearing swivel castors
- universal mounting plate
- Suitable for rack cabinets, speaker boxes, etc.
- Sold as a set of 4
- Mount plate: 70(L) x 55(W)mm
- Wheel: 50(Dia) x 30(W)mm
- Overall Height: 75mm



UNIVERSAL ENCLOSURE FEET

- Adjustable height
- M12 threaded shaft
- Supplied with locking nut
- Sold as a set of 4
- Suitable for rack cabinets, speaker boxes, etc.
- Dimensions: 60(H) x 50(Dia.)mm



Cat HB-5470

Cat HB-5472



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	1U XLR Socket Panel	HB-5436	\$12.95	\$11.35	\$10.35
	Braked Castors - Set of 4	HB-5470	\$34.95	\$31.45	\$27.95
	Adjustable Feet - Set of 4	HB-5472	\$19.95	\$17.95	\$15.95

Patch Lead Management Panel

Keeps all your patch leads under control.

- 1U size
- Removable cover plate



▲	Dimensions	Cat.	Qty 1+	Qty 4+	Qty 10+
	483(W) x 45(H) x 68(D)mm	HB-5434	\$29.95	\$26.95	\$23.70

Rack Mount Cat 5e/6 Patch Panels



Sleek attractive looking rack mount 24 port patch panel with a hard metal exterior. Numbered ports and a labelling area for each port. Also comes with instruction stickers on the back for easier cabling. See our tool section for punch-down tools.

- Takes up 1 rack unit
- 24 port
- Numbered ports
- Labelling area
- Cat.5e or Cat6



▲		Cat.	Qty 1+	Qty 4+	Qty 10+
	24 Port - Cat 5e Panel	YN-8046	\$49.95	\$44.90	\$39.90
	24 Port - Cat 6 Panel	YN-8048	\$69.95	\$62.95	\$55.95

Security & Surveillance.



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WIRELESS DIGITAL DVR & CAMERA KITS

Digital 2.4GHz Wireless 3.5" LCD & Camera Kit

This wireless surveillance kit allows you to get on with your work while keeping a close eye on what is happening around and behind you. The included wireless monitor with 3.5" colour display mounts to a glass or flat surface using the supplied bracket with suction cup, and features a built-in speaker with adjustable volume. The wireless digital camera features an adjustable mounting bracket, high sensitivity microphone, antenna and infrared LEDs to illuminate intruders at night time. The system uses digital 2.4GHz technology for a secure and interference free transmission. Suits a wide range of surveillance applications for shops, home, workshop and baby care.

Kit includes:

- 1 x Wireless 3.5" LCD with suction cup bracket
- 1 x Wireless IR camera
- 2 x 5V DC mains power adaptors



Great value!



	Cat.	Qty 1+	Qty 2+	Qty 4+
3.5" LCD + 1 x Camera	QC-3673	\$129.00	\$115.95	\$109.45

4 Channel Wireless 7" LCD DVR & Camera Kit

The large 7" touch screen LCD gives you full control, and you can even connect up to 4 cameras (1 camera included in kit, others available separately). Digital transmission up to 100m ensures a flexible, no-fuss installation. The monitor can be easily moved around thanks to the in-built rechargeable battery, which will power the unit for up to 2.5hrs at a time. Video is then easily recorded to an SD card (not included). The camera itself is a solid weatherproof outdoor camera with built-in LEDs for night vision, and a motion detector (PIR). This can be used to automatically trigger recording from motion detection, so reduce required memory and save review time when looking for events in the recordings. Of course all video is transmitted wirelessly, so you just need a power source nearby for the camera. All power supplies are included, as well as mounting hardware for the camera.

- Quad viewing mode
- 2 way audio communication
- Record & playback simultaneously
- Motion detection, scheduled & manual recording



Up to 4 cameras



FEATURES



MONITOR	
LCD	7" Touch Screen
Frequency	2.4GHz Digital Wireless
Range	Up to 100m
Resolution	800 x 480 (VGA) Video
Compression	MPEG-4
Recording Format	ASF
Storage	Up to 128GB SD
Battery	3.7V, 2000mAh Li-Ion
Battery Time	Up to 2.5hrs
Power	5VDC, 2A
Dimensions	196(L) x 123(H) x 20(D)mm

CAMERA	
Image Sensor	1/4" Colour CMOS
Resolution	640 x 480 (VGA)
Frame Rate	25fps (Up to 2 x cameras) 15fps (Up to 4 x cameras)
Lens	3.6mm
Viewing Angle	66°
Night Vision	24 x IR LEDs
IP Rating	IP65
Power	9VDC, 600mA
Dimensions	191(L) x 69(Dia)mm

SD CARD CAPACITY	QVGA (15fps)		VGA (25fps)	
	Min	Max	Min	Max
1GB	2.8 Hrs	10.7 Hrs	2.6 Hrs	10.5 Hrs
2GB	5.6 Hrs	21.4 Hrs	5.2 Hrs	21 Hrs
4GB	11.3 Hrs	42.8 Hrs	10.3 Hrs	42 Hrs
8GB	22.6 Hrs	85.6 Hrs	20.7 Hrs	83.9 Hrs
16GB	45.2 Hrs	171.3 Hrs	41.4 Hrs	167.8 Hrs
32GB	90.3 Hrs	342.6 Hrs	82.8 Hrs	335.6 Hrs
64GB	180.6 Hrs	685.1 Hrs	165.6 Hrs	671.2 Hrs
128GB	361.2 Hrs	1370.2 Hrs	331.2 Hrs	1342.4 Hrs

	Cat.	Qty 1+	Qty 2+	Qty 4+
7" LCD + 1 x Camera	QC-3762	\$299.00	\$269.00	\$249.00
Spare Camera to suit	QC-3763	\$159.00	\$142.95	\$134.95

720p 4 Channel Wireless 7" Touch Screen DVR & Camera Kit

Superior quality digital transmission up to 100m for flexible, no-fuss installation. The large 7" touch screen LCD gives you full control, and you can even connect up to 4 cameras (1 camera included in the kit). You can also view the surveillance system outside of your house or office via an Ethernet connection and using the free Smartphone app. The monitor can be easily moved around thanks to the built-in rechargeable battery, which will power the unit for up to 2.5hrs at a time. Video is then

- Free iTunes® & Google Play Smartphone App
- Quad viewing mode
- 2 Way audio communication
- Record & playback simultaneously
- Motion detection, scheduled & manual recording

View live footage on a Smartphone
Smartphone not included

Up to 4 cameras

Due August 2017

MONITOR	
LCD	7" Touch Screen
Display Resolution	800 x 480
Frequency	2.4GHz Digital
Wireless Range	Up to 100m
Frame Rate	25fps (Up to 2 x Cameras), 15fps (Up to 4 x Cameras)
Video Compression	MPEG-4
Network	Ethernet 10/100Mbps
Storage	Up to 128GB SD
Battery	3.7V, 2000mAh Li-Ion
Battery Time	Up to 2.5hrs
Power	5VDC, 2A
Dimensions	196(L) x 123(H) x 20(D)mm

CAMERA	
Image Sensor	1/4" Colour CMOS
Resolution	720p (1280 x 720)
Lens	3.6mm
Viewing Angle	66°
Night Vision	24 x IR LEDs
IP Rating	IP65
Power	9VDC, 600mA
Dimensions	191(L) x 69(Dia.)mm

easily recorded to an SD card (not included). The camera itself is a tough weatherproof outdoor camera with on-board LEDs for night vision, and a motion detector (PIR). This can be used to automatically trigger recording to reduce required memory and save review time.



FEATURES



	Cat.	Qty 1+	Qty 4+
720p 7" Touch Screen LCD + Camera	QC-3764	\$399.00	\$359.00
Spare Camera to suit	QC-3765	\$169.00	\$151.95

DVR & CAMERA KITS

We here at Jaycar have been selling CCTV/Security cameras and video recording equipment for over 20 years. Every year our buyers show us new products which are amazing in terms of price and performance.

It is no different this year. Take, for example, the 4 Channel Wireless 7" Monitor DVR and camera package QC-3762 (opposite). Now there is no reason not to set up a DIY security system in your shop/office/home. Or the QC-3764 with extra features on the same page.

We also have a new range of 4 channel DVR and camera systems at up to 1080p resolution for under \$650! Astonishing.

Jaycar would also like to announce that we are now a major distributor of the highly regarded SWANN® brand of DVR and camera systems. They complement our in-house range of products beautifully. We have always grudgingly admired SWANN® products and now we stand right beside them with their full factory support.

2017 is a very exciting year with the SWANN® initiative, and you, our valued customer can only benefit. Look for more exciting new products in these pages!



DVR KITS

COMPARISON GUIDE

		Channels	Cameras Supplied	Recorder Type	Recorder Resolution	Hard Drive	Camera TV Line	Camera Type	Remote App	Page
QV-3138		4	4	DVR	960H	500GB	650TVL	Analogue (CMOS)	•	412
QV-3154		4	4	DVR	1080p	1TB	720p	AHD (CMOS)	•	412
QV-3156		8	4	DVR	1080p	1TB	720p	AHD (CMOS)	•	412
QV-3148		16	4	DVR	720p	1TB	720p	AHD (CMOS)	•	413
QV-9000		4	4	DVR	1080p	1TB	1080p	AHD/TVI (CMOS)	•	413
QV-9002		8	4	DVR	1080p	2TB	1080p	AHD/TVI (CMOS)	•	414
QV-9004		8	8	DVR	1080p	2TB	1080p	AHD/TVI (CMOS)	•	414
QV-3130		4	2	NVR	1080p	1TB	720p	IP-CMOS	•	414
QV-3132		4	4	NVR	1080p	1TB	720p	IP-CMOS	•	414
QV-9010		8	4	NVR	4MP	2TB	4MP	IP-CMOS Bullet	•	415
QV-9012		8	4	NVR	4MP	2TB	4MP	IP-CMOS Dome	•	415

WHAT IS AHD?

AHD (Analogue High Definition) is a new HD solution, AHD technology can transmit video signal over traditional coaxial cable up to 500m. It adopts advanced Y/C signal separation and analogue signal filtering technology, which can effectively reduce colour noise & with better image reproduction. AHD cameras advantages:

- High resolution: Advanced signal filtering, 3D noise reduction, higher image resolution, better image reproduction.
- Long range transmission distance: max. 500m over traditional 75Ω coaxial cable
- No video latency: Uncompressed video, real time transmitting.
- Better compatibility: Compatible with D1/960H products.
- Easy to install: Support OSD menu, easy to operate and install.

TECH TALK

DROPBOX® CLOUD STORAGE

Most of our Techview DVR range* now includes a Dropbox® storage option.

Setup or use your own personal Dropbox® storage account to automatically save your footage, so you can retrieve footage in case your DVR is stolen or damaged. Dropbox® offers 2GB of free storage or for users who require a larger amount of storage; a subscription service is available directly from Dropbox®.

*excludes QV-8126/QV-8128/QV-3047/QV-3138 DVR & SWANN® Systems



DVR & CAMERA KITS - ANALOGUE RANGE

4 Channel DVR with 4 x 650TVL Cameras

An affordable 4 channel DVR suitable for day and night surveillance. Includes 500GB of storage for up to 300 hours of continuous video recording from the four 650TV line weatherproof colour cameras with IR illumination.

The four channel DVR supports full 960H resolution at 25 frames per second on each channel and can be controlled across the network or by using the included mouse or remote control. Recordings can be initiated manually, triggered by a timer or activated by movement in the camera's field of vision.

Connect the DVR to a computer network and you can even view video remotely from anywhere in the world using a web browser or Smartphone/iPhone® (via installed app*).

KIT INCLUDES:

1 x 4Ch 960H DVR with built-in 500GB HDD, 4 x 650TVL bullet cameras with mounting hardware, 4 x 18m BNC cables, power supply and splitter, USB mouse and remote control.



View live footage on a Smartphone
Smartphone not included



NEW LOW PRICE

DVR SPECIFICATIONS	QV-3138
Video compression	H.264
Video input	4 x BNC composite
Video output	HDMI, VGA, 2 x BNC Composite
Audio input	1 x RCA
Audio output	1 x RCA
Maximum recording resolution	960H (960 x 576), D1 (704 x 576), HD1 (704 x 288), CIF (352 x 288)
Maximum recording frame rate	100fps (25fps Per Channel)
Hard disk storage	500GB SATA
Back-up	USB & network remote back-up
Network interface	RJ45, 10/100Mbps
Power supply	12VDC 5A (included)
Dimensions	255(L) x 185(W) x 50(H)mm

CAMERA SPECIFICATIONS	QV-3138
Sensor	1/3 CMOS
Horizontal resolution	650TV Lines
Lens type A (2 cameras)	3.6mm lens, 72° angle
Lens type B (2 cameras)	6.0mm lens, 45° angle
Voltage	12VDC from DVR power supply
Dimensions	85(L) x 45(Dia.)mm

FEATURES



650TVL Cameras

960H

Recording Resolution



500GB Hard Drive

1 YEAR

Warranty

	Cat.	Qty 1+	Qty 4+
4 Channel DVR & 4 Cameras	QV-3138	\$399.00	\$359.00
Spare 700TVL Bullet Camera	QC-8653	\$89.95	\$76.45
Spare 700TVL Dome Camera	QC-8654	\$89.95	\$76.45

4 or 8 Channel 1080p AHD DVR + 4 x 720p Cameras

These kits comes preinstalled with a 1TB HDD and include a set of 4 x 720p AHD day/night cameras that deliver exceptional picture quality. With built-in IR LEDs they will continue to capture objects in the dark while their weatherproof enclosure allows them to be installed outside. Remote viewing is possible via PC, smart phones or tablets. Recorded footage can be easily transported offsite via USB flash drive or download over a network.

- Supports 2 (QV-3154) & 4 (QV-3156) additional IP cameras
- Plug & Play (P2P) technology
- Free iOS® & Android Smartphone App
- Real time monitoring
- Motion triggered, continuous and manual recording
- Motion detect email alert
- Backup to external USB drive
- Dropbox cloud storage

QV-3154 4 CHANNEL KIT INCLUDES:

1 x 4Ch 1080p DVR with built-in 1TB HDD, 4 x 720p HD bullet cameras with mounting hardware, 4 x 18m BNC cables, power supply and splitter, USB mouse and remote control.

QV-3156 8 CHANNEL KIT INCLUDES:

1 x 8Ch 1080p DVR with built-in 1TB HDD, 4 x 720p HD bullet cameras with mounting hardware, 4 x 18m BNC cables, power supply and splitter, USB mouse and remote control.



NEW 2017

DVR SPECIFICATIONS	BOTH MODELS
Input / Output	4 (QV-3154) or 8 (QV-3156) Channel inputs / VGA and HDMI outputs
Audio	4 (QV-3154) or 8 (QV-3156) Channel inputs / 1 Channel output (RCA)
Display Resolution	1080p AHD (1280 x 720)
Record Resolution	1080p (1280 x 720) @ 100fps (25fps per channel), 960H (960 x 576) @ 100fps
HDD	Included: 1TB 3.5" SATA HDD, Supports Up to 4TB SATA
Supports	Up to 4TB SATA (QV-3154), Up to 6TB SATA (QV-3156)
Playback Search	Time & Date / Event List
USB Interface	2 x USB 2.0 for Mouse and File Backup / Upgrade
PTZ Control	Yes
Network Function	Live viewing via a standard internet browser or smartphone using Plug & Play (P2P) setup
Backup	AVI file via USB flash
Power Supply	12VDC, 5A
Dimensions	300(L) x 227(W) x 53(D)mm



View live footage on a Smartphone
Smartphone not included



CAMERA SPECIFICATIONS	BOTH MODELS
Image Sensor	1/4" Colour CMOS
Horizontal Resolution	720p @ 25fps
Video Output	1 channel BNC
Lens	6.0mm / 3.6mm
IP Rating	IP66
Power Requirements	12VDC, 500mA

FEATURES



720p Camera

1080p

Recording Resolution



1TB Hard Drive

1 YEAR

Warranty

	Cat.	Qty 1+	Qty 4+
4 Channel AHD DVR Kit + 4 x 720p Cameras	QV-3154	\$649.00	\$579.00
8 Channel AHD DVR Kit + 4 x 720p Cameras	QV-3156	\$749.00	\$669.00
Spare 720p Bullet Camera	QC-8637	\$129.00	\$108.95
Spare 720p Dome Camera	QC-8639	\$129.00	\$108.95

DVR & CAMERA KITS WITH AHD TECHNOLOGY - PREMIUM RANGE

16 Channel AHD DVR with 4 x 720p Cameras

This 16 CH DVR incorporates AHD technology which can transmit 720p high definition video signal over traditional coaxial cable up to 500 metres. Compared with traditional analogue cameras, AHD technology has significant improvement on imaging. Coupled with P2P connectivity means that is simpler than ever to connect your DVR to your iOS® or smart phone device than ever before. Record continuously on all 16 channels in 720p high definition, or select motion event recording to maximise storage performance. Motion event recording can also be set to alert you via email or push notification.

AHD cameras advantages:

- High resolution: Advanced signal filtering, 3D noise reduction, higher image resolution
- Long range transmission distance: max. 500 metres over traditional 75 ohm coaxial cable.
- No video latency: Uncompressed video, real time transmitting
- Easy to install: Support OSD menu, easy to operate and install

KIT INCLUDES:

1 x 16Ch 720p DVR with built-in 1TB HDD, 4 x 720p HD bullet cameras with mounting hardware, 4 x 18m BNC cables, power supply and splitter, USB mouse and remote control.



View live footage on a Smartphone
Smartphone not included



CAMERA SPECIFICATIONS QV-3148

Image Sensor	1.0 Megapixel, 1/4" CMOS
Effective Pixels	1280 (H) x 720 (V)
Lens	3.6mm / 6.0mm
IP Rating	IP66
Video Output	1 channel BNC
IR Range	10m
Power Requirement	12VDC±10%



FEATURES



720p Camera



1TB Hard Drive



DVR SPECIFICATIONS	QV-3148
Video Compression	H.264
Video - input / output	16 Channel inputs / VGA and HDMI outputs
Audio - input / output	4 Channel inputs / 1 Channel output (RCA)
Display / Record resolution	1280 x 720p or 960 X 576 / 25fps
Sensor and alarm I/O	4 inputs / 1 output
Notifications	Email
Hard Disk Storage	1TB SATA, supports up to 4TB
Back-up	USB and network remote back-up
Network interface	RJ45 10/100Mbps (DHCP and DDNS)
PTZ Control	Supported
Dimensions	300(W) x 227(D) x 53(H)mm

	Cat.	Qty 1+	Qty 4+
16 Channel AHD DVR Kit + 4 x 720p Cameras	QV-3148	\$999.00	\$899.00
Spare 720p Bullet Camera	QC-8654	\$89.95	\$80.95
Spare 720p Dome Camera	QC-8639	\$129.00	\$115.95
			Qty 4+
			\$108.95

4 Channel DVR Kit with 4 x 1080p HD Cameras

Professional 4 channel HD digital video recorder with 4 x 1080p high definition cameras to see and protect your home or office. View live or playback video in high definition on your HDTV or LCD monitor via HDMI or VGA, or login remotely via your Apple or Android compatible Smartphone or Tablet using the free HomeSafe View app. View 4 cameras in quad view or one at a time in high definition 1080p. Long 160+ days recording to pre-installed 1TB hard drive.

- 4 channel viewing
- HD Live view and recording
- Quickshot time lapse
- 1TB 160+ days recording
- Lifetime 24/7 SWANN support

KIT INCLUDES:

1 x 4ch DVR with built-in 1TB HDD, 4 x 1080p HD bullet cameras with mounting hardware, 4 x 18m BNC cables, Ethernet and HDMI cables, power supply and splitter, USB mouse and theft deterrent stickers.

Note: 160 days based on 15% motion at lowest setting

View live footage on a Smartphone
Smartphone not included



DVR SPECIFICATIONS	QV-9000
Video - input / output	4 x BNC / VGA and HDMI
Audio - input / output	4 x RCA / 1 x RCA
Display / Record resolution	Up to 1080p
Hard Disk Storage	1TB SATA, supports up to 4TB
Back-up	USB and network remote back-up
Network interface	RJ45
PTZ Control	Supported
Dimensions	230(W) x 210(D) x 47(H)mm

CAMERA SPECIFICATIONS QV-9000

Effective Pixels	1080p
Viewing angle	80 degrees
IP Rating	IP66
Video Output	1 channel BNC
IR Range	30m
Power Requirement	DC12V±10%

FEATURES



1080p Camera



Recording Resolution



1TB Hard Drive



1 YEAR Warranty

	Cat.	Qty 1+	Qty 4+
4 Channel DVR Kit with 4 x 1080p HD Cameras	QV-9000	\$699.00	\$629.00
Spare 1080p Bullet Camera	QV-9006	\$149.00	\$133.95
Spare 1080p Dome Camera	QV-9008	\$149.00	\$133.95

DVR VS NVR

TECH TALK



There are key differences between NVR and DVRs. NVRs may have a higher cost, however can provide an easier install and higher quality images.

DVR:

- Uses coax cable to run video from the camera to the DVR
- 200m maximum camera maximum distance to DVR
- Each camera needs its own power source using a secondary cable between power supply and cameras using a splitter
- Cameras are analogue with the image processing done by the DVR. Cheaper camera cost.

NVR:

- Uses common Ethernet cables to run video and power between the camera and DVR
- 100m maximum camera distance to DVR, but can be extended using PoE enabled Ethernet Router or Switch
- Power is provided from the DVR over Ethernet (PoE). No extra cabling.
- Modern homes and offices already have Ethernet running between rooms, which makes installation easier
- Cameras are digital with the images processed in the camera. Higher camera cost.

DVR & CAMERA KITS WITH AHD TECHNOLOGY - PREMIUM RANGE (CONTINUED)

8 Channel DVR Kits with 1080p HD Cameras

Professional HD 8 channel digital video recorder with 1080p high definition cameras to see and protect your home or office. View live or playback video in high definition on your HDTV or LCD monitor via HDMI or VGA, or login remotely via your Apple or Android compatible Smartphone or Tablet using the free HomeSafe View app. View up to 8 cameras at once, 4 in quad mode or one at a time in high definition 1080p. Long 160+ days recording to massive pre-installed 2TB hard drive.

Choose between 4 or 8 camera kits.

- 8 channel viewing
- HD Live view and recording
- Quickshot time lapse
- 2TB 160+ days recording
- Lifetime 24/7 SWANN support

View live footage on a Smartphone
Smartphone not included

QV-9002 4 CAMERA KIT INCLUDES:

1 x 8ch DVR with built-in 2TB HDD, 4 x 1080p HD bullet cameras with mounting hardware, 4 x 18m BNC cables, Ethernet and HDMI cables, power supply and splitter, USB mouse and theft deterrent stickers.

QV-9004 8 CAMERA KIT INCLUDES:

1 x 8ch DVR with built-in 2TB HDD, 8 x 1080p HD bullet cameras with mounting hardware, 8 x 18m BNC cables, Ethernet and HDMI cables, power supply and splitter, USB mouse and theft deterrent stickers.

Note: 160 days based on 15% motion at lowest setting

DVR SPECIFICATIONS	BOTH MODELS
Video - input / output	8 x BNC / VGA and HDMI
Audio - input / output	1 x RCA / 1 x RCA
Display / Record resolution	Up to 1080p
Hard Disk Storage	2TB SATA, supports up to 4TB
Back-up	USB and network remote back-up
Network interface	RJ45
PTZ Control	Supported
Dimensions	230(W) x 210(D) x 47(H)mm

CAMERA SPECIFICATIONS	BOTH MODELS
Effective Pixels	1080p
Viewing angle	80 degrees
IP Rating	IP66
Video Output	1 channel BNC
IR Range	30m
Power Requirement	DC12V±10%



QV-9002

FEATURES



	Cat.	Qty 1+	Qty 4+
8 Channel DVR Kit with 4 x 1080p Cameras	QV-9002	\$799.00	\$719.00
8 Channel DVR Kit with 8 x 1080p Cameras	QV-9004	\$999.00	\$899.00
Spare 1080p Bullet Camera	QV-9006	\$149.00	\$133.95
Spare 1080p Dome Camera	QV-9008	\$149.00	\$133.95

1080p AHD/TVI Surveillance Cameras

Expand your 1080p capable DVR with these high definition cameras. Suits SWANN Pro-series and TechVIEW QV-3154 DVR. Suitable for indoor and outdoor use, and supplied with 18m cable, power supply, mounting hardware and theft deterrent stickers.

- 1080p
- IR LEDs for day/night vision
- IR Cut filter
- Weatherproof (IP66)



SPECIFICATIONS	BOTH MODELS
Operating voltage	12VDC
Video quality	1080p
Viewing angle	76°
Night vision	Up to 30m
Dimensions	180(L) x 66(Dia.)mm (QV-9006) 105(Dia.) x 73(H)mm (QV-9008)



QV-9006



QV-9008



	Cat.	Qty 1+	Qty 2+
Bullet	QV-9006	\$149.00	\$133.95
Dome	QV-9008	\$149.00	\$133.95

NVR & CAMERA KITS

4 Channel NVR Kit with 2 or 4 x 720p IP Cameras

This easy to use network video recorder package ensures this model is the number one choice for installers and amateurs alike. The supplied two 720p HD IP digital cameras provide crisp and clear images enabling the recording of faces, clothing colours, license plates and more all in high definition. Each camera has infrared LEDs which automatically turn on in low light conditions and enable recording to continue in absolute darkness. Supplied with a 1TB HDD for recording up to 300hrs of continuous video. Backup a recorded incident easily and quickly to a USB flash drive.

With the incorporated plug-and-play technology this NVR kit is the easiest video security product to setup. View live footage on your Smartphone or Tablet in minutes. Unlike traditional digital video recorders (DVRs) there is no specialised IT technical expertise required during installation. No router setup required, no port forwarding to be done, a static IP address is not required from your internet service provider. All of this highly technical expertise is simply not needed to install this NVR kit, making it a breakthrough in technology, and one of the easiest to install Smartphone connect security recording product ever.

QV-3130 2 CAMERA KIT INCLUDES:

1 x 4Ch 1080p NVR with built-in 1TB HDD, 2 x 720p IP bullet cameras with mounting hardware, 2 x Ethernet cables, power supply, NVR stand, USB mouse and remote control.

QV-3132 4 CAMERA KIT INCLUDES:

1 x 4Ch 1080p NVR with built-in 1TB HDD, 4 x 720p IP bullet cameras with mounting hardware, 4 x Ethernet cables, power supply, NVR stand, USB mouse and remote control.



TECHview



View live footage on a Smartphone
Smartphone not included



QV-3132

SPECIFICATIONS	BOTH MODELS
Video Compression format	H.264
Recording Resolution	1080p (1920 x 1080), 720p (1280 x 720). D1 (704 x 576)
Camera Input	IP x 4CH (RJ45) 720P/D1
Video Output	HDMI, VGA
Network Interface	NTP/DHCP/DDNS/CMS/Web2.0 Browser/P2P/WI-FI
Hard Disk Storage	1TB HDD
Back-up	USB and network remote Back-up



FEATURES



Cameras	Cat.	Qty 1+	Qty 2+	Qty 4+
2 Camera Kit	QV-3130	\$649.00	\$579.00	\$549.00
4 Camera Kit	QV-3132	\$849.00	\$759.00	\$719.00
Spare 720p Camera to suit	QC-3131	\$139.00	\$124.95	\$117.95
Spare 1080p Camera to suit NEW	QC-3122	\$169.00	\$151.95	\$142.95

NVR & CAMERA KITS (CONTINUED)

8 Channel NVR Kits with 4 X 4MP Super HD Cameras

Professional super HD 8 channel network video recorders with 4MP super high definition cameras with crystal clear vision and audio to see, hear and protect your home or office. 4MP is 75% more pixels than 1080p so you can see true colour, sharper image quality, license plates, facial details and more. View live or playback video in high definition with outstanding clarity and enhanced digital zoom on your HDTV or LCD monitor via HDMI or VGA, or login remotely via your Apple or Android compatible Smartphone or Tablet using the free HomeSafe View app.

View 4 cameras in quad view, one at a time or add 4 more cameras (sold separately) for 8 channel monitoring.

Easy setup with power and video in single RJ45 Ethernet cable per camera.

Long 160+ days recording to massive pre-installed 2TB hard drive.

Choose between bullet or dome camera kits.

- 8 channel viewing
- Crystal clear audio
- 4MP super HD
- PoE Power over Ethernet
- 2TB 160+ days recording
- Lifetime 24/7 SWANN support

View live footage
on a Smartphone
Smartphone not included



QV-9010

QV-9010 4 X BULLET CAMERA KIT INCLUDES:

1 x 8ch NVR with built-in 2TB HDD, 4 x 4MP HD BULLET cameras with mounting hardware, 4 x 18m Ethernet cables and HDMI cables, USB mouse & theft deterrent stickers.



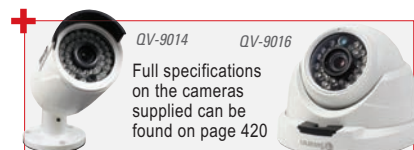
QV-9012

QV-9012 4 X DOME CAMERA KIT INCLUDES:

1 x 8ch NVR with built-in 2TB HDD, 4 x 4MP HD DOME cameras with mounting hardware, 4 x 18m Ethernet cables and HDMI cables, USB mouse and theft deterrent stickers.

Note: 160 days based on 15% motion at lowest setting

DVR SPECIFICATIONS	BOTH MODELS	CAMERA SPECIFICATIONS	BOTH MODELS
Video - input / output	8 x RJ45 / VGA and HDMI	Effective Pixels	4MP
Audio - output	1 x RCA	Viewing angle	75° (Bullet), 80° (Dome)
Display / Record resolution	Up to 1080p / Up to 4MP	IP Rating	IP66
Hard Disk Storage	2TB SATA, supports up to 3TB internal & 1 x 3TB eSATA	Video Output	1 channel RJ45
Back-up	USB and network remote back-up	IR Range	30m
Network interface	RJ45	Audio	Yes
Dimensions	255(W) x 230(D) x 51(H)mm	Power Requirement	DC12V±10%



Full specifications
on the cameras
supplied can be
found on page 420

FEATURES



	Cat.	Qty 1+	Qty 4+
8 Channel NVR Kit with 4 x 4MP Super HD Bullet Cameras	QV-9010	\$1,299.00	\$1,169.00
8 Channel NVR Kit with 4 x 4MP Super HD Dome Cameras	QV-9012	\$1,299.00	\$1,169.00
Spare 4MP Bullet Camera	QV-9014	\$199.00	\$178.95
Spare 4MP Dome Camera	QV-9016	\$199.00	\$178.95

SURVEILLANCE RESOLUTIONS EXPLAINED

TECH TALK



CIF: You'll still find CIF quality equipment available, but not nearly as common as it once was, as higher resolution equipment continues to fall in price. It provides 352 x 240 (0.1 Megapixels) resolution. We no longer carry any CIF resolution equipment.

D1: You'll find D1 resolution offered on a number of our low-cost solutions. It provides 704 x 480 (0.3 Megapixels).

960H: Providing reasonable resolution but still in a value price range. 928 x 480 (0.5 Megapixels). 960h is the same vertical resolution as D1, however it has a widescreen aspect ratio, providing more pixels overall.

720P HIGH DEFINITION: 720p was the first resolution classified as high definition, even for televisions. Now almost everything is full high definition, but high definition is still used in many surveillance cameras 1280 x 720 (1 Megapixel).

1080P FULL HIGH DEFINITION: This is the most common TV standard, and is considered "Full High Definition". 1920 x 1080 (2 Megapixels). One major benefit of 1080p hardware is it matches pixel-for-pixel, many off-the-shelf displays designed for computers or TV.

4 MEGAPIXEL ULTRA HIGH DEFINITION: Providing a marginal increase in resolution over Full HD 1080p, with a resolution of 2560 x 1440 pixels. It provides a marginal increase in resolution over Full High Definition 1080p.

WHAT ABOUT TV LINES? TV lines came about when most recording was done with analogue hardware, with tape-storage being the common method. The TV Lines / TVL standard is falling out of favour to Megapixel specifications, mostly because once we hit 1000TVL, it all started getting a little difficult to track. For a basis of comparison however, a 600TVL resolution is approximately 0.4 megapixels, or 1000TVL is approximately equal to 0.9 megapixels. So you can see once we enter high definition territory (2 megapixels or more), the TVL standard becomes a little difficult to manage.









IN SUMMARY: The quality of resolution you need is really determined by your own specific requirements. While "more is better" when it comes to resolution in many ways, consider your own budget and circumstances to find a balance between cost and quality. If you would still like to chat to someone very knowledgeable about surveillance and resolution, find one of our friendly team who can help you find what you need.

To learn more visit www.jaycar.com.au/resolutionmatters

Resolution Relative Size Differences



STAND ALONE DVRS
COMPARISON GUIDE

	QV-3047	QV-3143	QV-8126	QV-3157	QV-3149	QV-8128	QV-3159
							
Video Input	4 Channel	4 Channel	8 Channel	8 Channel	16 Channel	16 Channel	16 Channel
Video Output	HDMI VGA BNC	HDMI VGA	HDMI VGA BNC	HDMI VGA	HDMI VGA	HDMI VGA BNC	HDMI VGA
Audio Input	1	4	1	8	16	1	16
Audio Output	1	1	1	1	4	1	1
Alarm Input		4	1	4	8	1	4
Alarm Output		1	1	1	1	1	1
USB Input	2	2	2	2	2	2	2
Max Resolution	960 x 576 (960H)	1280 x 720 (720p) AHD	960 x 576 (960H)	1920 x 1080 (1080p)	1280 x 720 (720p) AHD	960 x 576 (960H)	1920 x 1080 (1080p)
Max Frame Rate	25fps @ 960H	25fps @ 720p	25fps @ 960H	25fps @ 1080p	25fps @ 720p	25fps @ 960H	25fps @ 1080p
Hard Disk	500GB	1TB	1TB	1TB	1TB	2TB	1TB
Dimensions (mm)	300 x 210 x 50	300 x 227 x 53	445 x 290 x 45	300 x 227 x 53	300 x 227 x 53	445 x 290 x 45	300 x 227 x 53
Page	416	417	416	417	417	416	417

4 Channel DVR with 960H Technology

An affordable 4 channel DVR suitable for home or office surveillance. Includes 500GB of storage for up to 300 hours of continuous video recording from up to 4 cameras available separately. Supports full 960H resolution at 25 frames per second on each channel and can be controlled across the network or by using the included mouse or remote control. Recordings can be initiated manually, triggered by a timer or activated by movement in the camera's field of vision. Connect the DVR to a computer network and you can even view video remotely from anywhere in the world using a web browser or Smartphone/iPhone® (via installed app*).

DVR SPECIFICATIONS	QV-3047
Video compression	H.264
Video input	4 x BNC composite
Video output	HDMI, VGA, 2 x BNC Composite,
Audio input	1 x RCA
Audio output	1 x RCA
Maximum recording resolution	960 x 576 (960H) @ 25fps per channel, 704 x 576 (D1) @ 25fps per channel
Maximum recording frame rate	100fps
Hard disk storage	500GB SATA
Back-up	USB & network remote back-up
Network interface	RJ45, 10/100Mbps
Power supply	12VDC 2A (included)
Dimensions	300(L) x 210(W) x 50(H)mm


NEW 2017

Due May 2017

View live footage on a Smartphone
Smartphone not included


FEATURES

960H Recording Resolution	500GB Hard Drive	1 YEAR Warranty
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▲	Cat.	Qty 1+	Qty 2+	Qty 4+
4 Channel 960H	QV-3047	\$289.00	\$259.00	\$239.00

8 & 16 Channel Professional DVRs with 960H Technology

These professional 960H Digital Video Recorders offers wider, clearer DVD-quality videos for your business. Features a 1TB hard drive capacity for each disk and comes with USB, HDMI and VGA interface. Recorded events can be transferred to a USB flash drive for viewing later.

This security system is internet-ready to provide an easier way to get connected. It allows you to link your security system to the internet, Smartphone or Tablet in a few easy steps, without any messy network configuration and without any additional changes. The system is easily customized for advanced monitoring and notification options.

Available in two models QV-8126 and QV-8128 with 8 channel and 16 channel respectively.


QV-8126


View live footage on a Smartphone
Smartphone not included


FEATURES

960H Recording Resolution	1TB Hard Drive (QV-8126)	2TB Hard Drive (QV-8128)	1 YEAR Warranty
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VIDEO INPUT	BOTH MODELS	AUDIO INPUT	BOTH MODELS	HDD BAY	BOTH MODELS
Video compression	H.264	Audio compression	G.711u	2 x SATA HDD (1 x 1TB HDD included) - QV-8128: 2TB (included)	
Video input	8 channel (QV-8126), 16 Channel (QV-8128)	Audio input	1 channel, RCA (2.0 Vp-p, 1k Ohms)	Capacity	Up to 4TB capacity for each disk
Video input interface	BNC (1.0 Vp-p, 75 Ohms), PAL/NTSC self adaptive	AUDIO OUTPUT	1 channel, RCA (linear, 1 k Ohms)	Recording resolution	WD1/4CIF/2CIF/CIF/QCIF
VIDEO OUTPUT	1 channel, resolution: 1920 x 1080p/60Hz, 1280 x 1024/60Hz, 1280 x 720/60Hz, 1024 x 768/60Hz	RCA		Frame rate	25fps(PAL)/30fps (NTSC) per channel
HDMI/VGA		Audio bit rate	64kbps	External interface	LAN: 1, RJ45 10M/100M Ethernet interface
CVBS	1 channel, BNC (1.0 Vp-p, 75 Ohms), resolution: PAL:704 x 576, NTSC: 704 x 480			Power supply	12VDC
				Dimensions	445(L) x 290(W) x 45(H)mm

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
8 Channel 960H	QV-8126	\$699.00	\$629.00	\$589.00
16 Channel 960H	QV-8128	\$899.00	\$809.00	\$759.00

STAND ALONE DVRs (CONTINUED)

Network 4 Channel 720p AHD Digital Video Recorder

This 4 channel DVR features the latest AHD (Analogue High Definition) recording. Built on a robust Linux operating system, it features P2P connectivity that provides easy network configuration which makes iOS® or Smartphone remote viewing applications a breeze to connect. Recording on all 4 channels in 720p real time high definition, it incorporates a multiplexer to allow simultaneous recording and playback of stored video. Alarm inputs allows for contact triggered events such as a forced door or window or duress switch activation to initiate an event recording and email notification to be sent. Remote connection software supplied allows remote playback and setting of the DVR. Access passwords allow multi-user access to monitor to review footage.



View live footage
on a Smartphone
Smartphone not included



SPECIFICATIONS	QV-3143
Video Compression	H.264
Video - input/output	4 Channel inputs / VGA and HDMI outputs
Audio - input/output	4 Channel inputs / 1 Channel output (RCA)
Resolution	1280 x 720p or 960 X 576 / 25fps
Sensor and alarm I/O	4 inputs / 1 output
Hard Disk Storage	1TB SATA, supports up to 4TB

SPECIFICATIONS	QV-3143
Back-up	USB and network remote back-up
Network interface	RJ45 10/100Mbps (DHCP and DDNS)
PTZ Control	Built in RS485, support Pelco-P & Pelco-D IR
IR Extender	1 port
Dimensions	300(W) x 227(D) x 53(H)mm



FEATURES



	Cat.	Qty 1+	Qty 2+	Qty 4+
4 Channel AHD Stand Alone DVR	QV-3143	\$349.00	\$309.00	\$289.00

Network 16 Channel 720p AHD DVR

AHD stands for Analogue High Definition, which is a new HD analogue solution that supports video transmission over traditional coaxial cable up to 500 metres. 16 channels AHD DVR supports monitors with VGA or HDMI input, include a 1TB HDD, and features an advanced user interface with user friendly design and intuitive user controls. Each DVR can connect to a wired network so you can see what is going on from anywhere in the world via your iOS® or Android® Smartphone or Tablet. Package includes DVR, mains power adaptor and mouse.

- Dropbox® cloud storage
- 16 channels
- 720p
- Supports VGA & HDMI input

View live footage
on a Smartphone
Smartphone not included

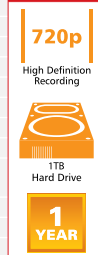


SPECIFICATIONS	QV-3149
Video Compression	H.264
Operation System	Linux (embedded)
Storage	1TB HDD included, supports up to 4TB
Video-input /output	VGA and HDMI output
Audio input /output	1CH output (RCA)
Display resolution	PAL: 1280*720p or 960*576 NTSC: 1280*720p or 960*480 feature single/Quad/S.E.Q.
Record resolution	PAL: 1280*720p or 960*576 / NTSC:1280*720p or 960*480 speed PAL: 25fps(each ch) / NTSC: 30fps(each ch)
Recording Mode	Continuous/Manual/Motion detect
Playback Channel	1/4ch, or Via CMS, Mobile for 1ch playback, laptop for 1/4Ch playback
Local DVR	1-4ch
PC/MAC	1-4ch
Smartphones	1ch (using app)

SPECIFICATIONS	QV-3149
Playback speed	PAL: 25fps(each ch) / NTSC: 30fps(each ch)
Sensor & Alarm I/O	4 inputs /1 output
Network Type	LAN, DHCP, and DDNS
E-mail Notifications	Yes, Support
HDD interface	1 x SATA HDDs, up to 4TB
Multiplex Operation	Live display, record, playback, backup and network
USB	2 x USB (for mouse and backup/upgrade)
PTZ Control	Yes
VGA	800*600, 1024*768, 1280*1024, 1440*900, 1920*1080
HDMI	1080p
IR Extender Port	Yes
Dimensions	300(W) x 227(D) x 53(H)mm



FEATURES



	Cat.	Qty 1+	Qty 2+	Qty 4+
16 Channel AHD	QV-3149	\$749.00	\$669.00	\$629.00

8 or 16 Channel 1080p AHD DVR

AHD stands for Analogue High Definition, which is a new HD analogue solution that supports video transmission over traditional coaxial cable up to 500 metres. Our exciting new range of 8 channel (QV-3157) and 16 channel (QV-3159) AHD DVRs support monitors with VGA or HDMI input, include a 1TB HDD, and feature an advanced user interface with user friendly design and intuitive user controls. Each DVR can connect to a wired network so you can see what is going on from anywhere in the world via your iOS® or Android® Smartphone or Tablet. Package includes DVR, mains power adaptor and mouse.

View live footage
on a Smartphone
Smartphone not included



NEW
2017

SPECIFICATIONS	BOTH
Video-input /output	8 (QV-3157), 16 CH inputs (QV-3159) / VGA and HDMI output
Audio input /output	8 CH inputs (QV-3157), 16 CH inputs / 1CH output (RCA)
Display resolution	1080p (1920x1080), 960H (960x576)
Record resolution	1080p (1920x1080), 960H (960x576)
Recording Mode	Continuous/Manual/Motion detect
Playback Channel	1/4ch, or Via CMS, Mobile for 1ch playback, laptop for 1/4Ch playback
Storage	1TB HDD included; supports up to 4TB
Local DVR	1-4ch
PC/MAC	1-4ch

SPECIFICATIONS	BOTH
Smartphones	1ch (using app)
Playback speed	PAL: 25fps (each ch) / NTSC: 30fps (each ch)
Sensor & Alarm I/O	4 inputs /1 output
Network Type	LAN, DHCP, and DDNS
E-mail Notifications	Yes, Support
HDD interface	1 x SATA HDDs, up to 4TB
Multiplex Operation	Live display, record, playback, backup and network
USB	2 x USB (for mouse and backup/upgrade)
PTZ Control	Yes
HDMI	1080p
Dimensions	300(W) X 227(D) X 53(H)mm

FEATURES



	Cat.	Qty 1+	Qty 2+	Qty 4+
8 Channel AHD	QV-3157	\$649.00	\$579.00	\$549.00
16 Channel AHD	QV-3159	\$849.00	\$759.00	\$719.00

DUMMY CAMERAS

Mini Size Dome Camera Housing

This dome camera housing looks exactly like the real thing, at a fraction of the price. Make your business/home/office look like its under surveillance. Even includes the metal camera case inside though with no lens.

- Dimensions: 88(dia) x 68(H)mm approx



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	Dome	LA-5317	\$9.95	\$8.75	\$8.25

Dummy Dome Camera with Flashing LED & CCTV Sticker

A simple and effective visual deterrent.

This fake but realistic-looking dome camera features a high brightness flashing red 3mm LED, and is supplied with a yellow CCTV warning sticker. Great for home, office, schools or any location to discourage thieves.

- Requires 2 x AA batteries
- Includes mounting hardware
- Sticker dimensions: 110 x 110mm
- Camera dimensions: 127(Dia) x 90(H)mm



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	Dome	LA-5332	\$14.95	\$13.45	\$11.95

Dummy Dome Camera Kit with Flashing Sign

A simple and effective visual deterrent, this fake security kit comes with a realistic-looking dummy dome camera and a flashing solar-powered 80 x 80mm LCD warning sign. Great for home, office, schools or any location to discourage thieves.

- Requires: 3 x AA batteries
- Dimensions: 120(Dia) x 70(H)mm

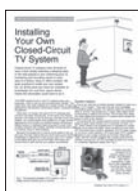


▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	Dome	LA-5324	\$24.95	\$22.35	\$20.95

INSTALLATION GUIDE

CCTV Installation Guide

This guide explains the various pieces of equipment required, the options available for installation and the different methods of viewing and recording the images. Topics cover camera types, lenses, light levels, power supplies, camera positioning, switchers, monitors and recorders.



▲	Type	Cat.	Qty 1+
	8 pages, A4	BI-8206	\$2.00

WARNING SIGNS & STICKERS

Surveillance Warning Stickers

Make sure people entering your premises know that they will be under video surveillance with this unambiguous message.

INSIDE SURVEILLANCE WARNING STICKER

- UV stabilised for long life
- Black printing on a clear background
- Sticks to inside of window
- Dimensions: 80(W) x 40(H)mm



OUTSIDE SURVEILLANCE WARNING STICKER

- Silver colour
- Sticks to outside of window
- Dimensions: 80(W) x 40(H)mm



LARGE OUTSIDE SURVEILLANCE WARNING STICKER

- Black lettering on white background
- Sticks to outside of window
- Dimensions: 120(W) x 50(H)mm



▲	Type	Size	Cat.	Qty 1+	Qty 2+	Qty 4+
	Small Inside	80 x 40mm	LA-5106	\$2.95	\$2.60	\$2.30
	Small Outside	80 x 40mm	LA-5107	\$2.95	\$2.60	\$2.30
	Large Outside	120 x 50mm	LA-5108	\$3.95	\$3.45	\$3.15

Dummy IR Camera

Visible deterrence is probably the most important aspect of security. Most criminals aren't completely stupid - if your premises looks like it has CCTV surveillance, they'll move on to the place that doesn't. These dummy cameras look totally convincing - they have genuine-looking IR LEDs and a real LED that adds to the illusion. Add a couple of warning signs and the baddies will never know the difference.

- Requires 2 x AA batteries
- Mounting hardware included
- UV Stabilised
- Dimensions: 175(L) x 85(Dia)mm



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	Bullet	LA-5325	\$24.95	\$22.35	\$20.95

Dummy Wireless Camera with Flashing LED

A realistic-looking but fake wireless camera with a high brightness flashing red 3mm LED, which gives the illusion to would-be thieves that they are being watched. The camera position can be adjusted horizontally and vertically for the best angle. Great for home, office, schools or any location to discourage thieves.

- Requires 3 x AA batteries
- Includes mounting hardware
- Camera dimensions (excl bracket): 155(L) x 60(W) x 50(H)mm



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	Bullet	LA-5334	\$14.95	\$13.45	\$11.95

Dummy Camera Theft Prevention Kit

Warn off thieves with this theft deterrent pack which includes: 2 x dome cameras, 2 x bullet cameras and a warning window sticker. Each camera includes a flashing LED to simulate realistic looking cameras. Everything you need in one pack to discourage thieves; perfect for offices, homes, schools etc.

- Batteries required:
Dome - 2 x AA (not included)
Bullet - 2 x AAA (not included)



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	2 x Bullet, 2 x Dome	LA-5336	\$59.95	\$53.95	\$50.95

CCTV Sticker - 110 x 110mm

Visible deterrent to intruders. Bright yellow to attract attention. Partner with a dummy camera or two for a complete faux security system or just to warn that the real thing is installed.



▲	Size	Cat.	Qty 1+	Qty 4+	Qty 8+
	110(W) x 110(H)mm	LA-5101	\$4.95	\$4.45	\$3.95

Surveillance Warning Sign 300 x 300mm

Visual deterrents are one of the most effective security measures you can use. This sign will ward off thieves and let them know you have state-of-the-art surveillance on your property even if you don't. It's made of acrylic, so it's lightweight and durable.



▲	Size	Cat.	Qty 1+	Qty 2+	Qty 4+
	300(W) x 300(H)mm	LA-5115	\$14.95	\$13.45	\$11.95

CCTV Warning Sign

Prominent warning sign for CCTV or dummy surveillance applications. Made from acrylic for durability.



▲	Size	Cat.	Qty 1+	Qty 4+	Qty 8+
	300(W) x 210(H)mm	LA-5114	\$14.95	\$13.45	\$11.95

SECURITY CAMERAS

COMPARISON GUIDE

	Resolution	Camera Type	Sensor Brand	Lens Type	Infrared	Page
QC-3694	420TVL	Mini	Sharp	3.6mm	•	419
QC-8653	700TVL	Bullet	Aptina	3.6mm	•	419
QC-8654	700TVL	Dome	Aptina	3.6mm	•	419
QC-8641	1000TVL	Dome	Aptina	3.6mm		419
QC-8643	1000TVL	Dome	Aptina	3.6mm	•	419
QC-8637	720p AHD	Bullet	Sony®	3.6mm	•	419
QC-8639	720p AHD	Dome	Sony®	3.6mm	•	419
QC-8666	720p AHD	Dome	Sony®	2.8-12mm Vari-Focal	•	420
QC-8668	720p AHD	Bullet	Sony®	2.8-12mm Vari-Focal	•	420
QC-8670	720p AHD	Bullet	Sony®	4.0mm Pan-Tilt	•	421
QV-9006	1080p AHD/TVI	Bullet	ON-Semiconductor®	3.6mm	•	420
QV-9008	1080p AHD/TVI	Dome	ON-Semiconductor®	3.6mm	•	420
QC-8672	1080p AHD	Bullet	Sony®	2.8-12mm Vari-Focal	•	420
QC-8674	1080p AHD	Dome	Sony®	2.8-12mm Vari-Focal	•	420
QC-8676	1080p AHD	Bullet	Sony®	2.8-12mm Pan-Tilt Zoom	•	421
QC-8678	1080p	Bullet (Starlight)	Sony®	2.8-12mm Vari-Focal	•	421
QC-8680	1080p	Dome (Starlight)	Sony®	2.8-12mm Vari-Focal	•	421

PROFESSIONAL DOME & OUTDOOR CAMERAS

420TVL Mini CCTV Camera

Quality Sharp colour CCD camera, ideal for use in retail stores, home security, remote monitoring or covert applications. Feature adjustable focus lens and composite video output which can feed into the AV inputs on any DVR or TV. Requires a 12VDC regulated power supply - use MP-3011

SPECIFICATIONS	QC-3694
Sensor	1/3" CCD
Sensor brand	Sharp
Resolution	420 TV Lines
Power required	12VDC
Current draw	320mA
Video output	1Vpp, 75 ohm
Min. Illumination	0Lux @ f1.2
Lens	3.6mm
Dimensions	55(H) x 42(W) x 15(D)mm

SHARP
SENSOR INSIDE

FEATURES



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	420TVL Mini	QC-3694	\$69.95	\$62.95	\$59.45

700TVL CMOS Dome Camera with IR Illumination

A robust high resolution security camera suitable for shopping centres, schools, hotels etc. Housed in a waterproof black anodised case it features a high quality colour CMOS sensor, IR LEDs for night time illumination, and a protective sun-shade. With a composite video output for easy integration into existing surveillance setups it is also supplied with a suitable power supply and 18m combined video and power lead.

SPECIFICATIONS	BOTH MODELS
Sensor	1/3 CMOS
Sensor resolution	(H x V pixels) 792 x 698
Horizontal resolution	700TVL
Minimum illumination	0.005Lux
IR illumination	24 LEDs
Effective IR range	Up to 10 metres
Lens	f6mm / F2.0 (QC-8654), 3.6mm (QC-8653)
Lens angle	72°
IP rating	IP66
Power source	12VDC
Current draw	35mA (IR OFF), 180mA (IR ON)
Dimensions	135(L) x 85(H) x 68(W)mm

FEATURES



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	700TVL Bullet	QC-8653	\$89.95	\$80.95	\$75.95
	700TVL Dome	QC-8654	\$89.95	\$80.95	\$75.95

1,000TVL Dome Cameras

This camera features supreme resolution with 1,000 TV Lines with the QC-8643 also boasting a 20 metre visibility in total darkness.

- 24 x IR LEDs (QC-8643 only)
- Supplied with mounting hardware
- 12VDC power required - use MP-3486



SPECIFICATIONS	BOTH MODELS
Image sensor	1/3" 1.2MP CMOS
Resolution	1000 TVLine
TV type	NTSC, PAL
Minimum illumination	0 Lux (LED on) - 20m range
S/N ratio	48dB or more (AGC off)
Gain control	Automatic gain control
Power supply	Regulated 12VDC ± 10%
Current consumption	max 200mA (LED on)
Lens	Fixed focal board lens
Dimensions	111(Dia) x 87(L)mm

FEATURES



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	1,000TVL Dome	QC-8641	\$89.95	\$80.95	\$75.95
	1,000TVL Dome with IR LEDs	QC-8643	\$109.00		

720p AHD Outdoor Cameras with IR

Featuring the latest AHD (Analogue High Definition) technology, these cameras deliver crystal clear images. Backward compatible with standard analogue equipment such as DVRs, video splitters, video balun, etc.

- Supplied with power supply & 18 metre coaxial cable fitted with BNC connectors.

SPECIFICATIONS	BOTH
Image Sensor	1.0 Megapixel, 1/4" CMOS
Effective Pixels	1280(H)x720(V)720p
Electronic Shutter	1/25 - 1/10,000 Sec
Video Frame Rate	720p @ 25fps (PAL)
Lens	3.6mm
IP Rating	IP66
Min Illumination	0.05 Lux with IR
Video Output	1 channel BNC
Day / Night	IR cut
IR Type	30 IR LEDs
IR Range	10m
Power Requirement	12VDC

FEATURES



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
	720p Bullet	QC-8637	\$129.00	\$115.95	\$108.95
	720p Dome	QC-8639	\$129.00	\$115.95	\$108.95

PROFESSIONAL DOME & OUTDOOR CAMERAS (CONTINUED)

720p AHD Vari-Focal Bullet Camera with IR

This AHD camera is ideal for a wide range of surveillance applications. The AHD (analogue high definition) offers high resolution of up to 720p and features a vari-focal lens which allows you to adjust it from 2.8-12mm. It makes use of 1/3" Sony Sensor (IMX225) and will capture night vision thanks to the IR leds.

- Supplied with power supply and 18m coaxial cable fitted with BNC connectors

SPECIFICATIONS

Image Sensor	1/3
Sensor Brand	Sony® IMX225
Resolution	720p (1280 x 720) @ 25fps
Lens	2.8-12mm
IR LED's	42pcs
IP Rating	IP66
Power	12VDC, 1A
Dimensions	207(L) x 148(H)mm (Including Bracket)



FEATURES



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
720p	Bullet	QC-8668	\$149.00	\$133.95	\$125.95

720p AHD Vari-Focal Dome Camera with IR

This AHD camera is ideal for a wide range of surveillance applications. The AHD (analogue high definition) offers high resolution of up to 720p and features a vari-focal lens which allows you to adjust it from 2.8-12mm. It makes use of 1/3" Sony Sensor (IMX225) and will capture night vision thanks to the IR leds.

- Supplied with power supply and 18m coaxial cable fitted with BNC connectors

SPECIFICATIONS

Image Sensor	1/3
Sensor Brand	Sony® IMX225
Resolution	720p (1280 x 720) @ 25fps
Lens	2.8-12mm
IR LED's	36pcs
IP Rating	IP65
Power	12VDC, 1A
Dimensions	145(Dia) x 89(D)mm



FEATURES



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
720p	Dome	QC-8666	\$149.00	\$133.95	\$125.95

1080p AHD/TVI Surveillance Cameras

Expand your 1080p capable DVR with these high definition cameras. Suits SWANN Pro-series and TechVIEW QV-3154 DVR. Suitable for indoor and outdoor use, and supplied with 18m cable, power supply, mounting hardware and theft deterrent stickers.

- 1080p
- IR LEDs for day/night vision
- IR Cut filter
- Weatherproof (IP66)



QV-9006

QV-9008

SPECIFICATIONS

BOTH MODELS	
Operating voltage	12VDC
Video quality	1080p
Viewing angle	76°
Night vision	Up to 30m
Dimensions	180(L) x 66(Dia.)mm (QV-9006) 105(Dia.) x 73(H)mm (QV-9008)

FEATURES



▲	Type	Cat.	Qty 1+	Qty 4+
1080p	Bullet	QV-9006	\$149.00	\$133.95
1080p	Dome	QV-9008	\$149.00	\$133.95

DO A FRIEND A FAVOUR

If you have a technical friend or someone who may be just interested in some of the products we stock, simply mail or email his or her address to:

Catalogue Department
Jaycar Electronics: PO Box 7172
Silverwater, NSW 1811 or email
to catalogue@jaycar.com

1080p AHD Vari-Focal Cameras

These AHD cameras are ideal for a wide range of surveillance applications. The vari-focal lens provides the ability to optimise the viewing angle to suit your particular installation and desired coverage. The high quality 1/3" Sony® Sensor (IMX323) provides high quality 1080p images in analogue high definition (AHD). AHD provides the ability to run very long cables without loss of quality.

The inclusion of 36 infrared LEDs provide night vision capability, while on-screen-display (OSD) allows direct control of the camera too.



QC-8672



QC-8674

SPECIFICATIONS

BOTH MODELS	
Image Sensor	1/3" CMOS Sony® IMX323
Resolution	1080p (1920 x 1080)
Frame Rate	25fps
Lens	2.8-12mm Adjustable
IR LEDs	36pcs
Water Ingress Rating	IP66
Power	12VDC @ 0.4A
Dimensions	85(W) x 206(L) x 177(H)mm (QC-8672) 133(W) x 110(H) x 145(D)mm (QC-8674)

FEATURES



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	Bullet	QC-8672	\$179.00	\$160.95	\$151.95
1080p	Dome	QC-8674	\$179.00	\$160.95	\$151.95

720p/1080p IP Cameras to suit Techview NVRs

Expand or upgrade your 2 or 4 channel Techview NVR (QV-3130 or QV-3132) with these IP cameras. Choose between 720p or 1080p for higher resolution. See page 423 for full specifications



QC-3131



QC-3132

FEATURES



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
720p	Bullet	QC-3131	\$139.00	\$124.95	\$117.95
1080p	Bullet	QC-3132	\$169.00	\$151.95	\$142.95

4MP IP Surveillance Cameras

Expand your SWANN HD NVR with these super high definition cameras. Designed for the SWANN Platinum HD models, and suitable for indoor and outdoor use. Supplied with 18m Ethernet cable, mounting hardware and theft deterrent stickers.

- 4 Megapixel
- Built-in microphone
- Power over Ethernet (PoE)
- IR LEDs for day/night vision
- IR Cut filter
- Weatherproof (IP66)



QV-9014



QV-9016



SPECIFICATIONS

BOTH MODELS	
Operating voltage	12VDC
Video quality	Up to 4 megapixel
Viewing angle	75° (QV-9014), 80° (QV-9016)
Night vision	Up to 30m
Audio range	Up to 5m
Dimensions	188(L) x 66(Dia.)mm (QV-9014), 120(Dia.) x 78(H)mm (QV-9016)

FEATURES



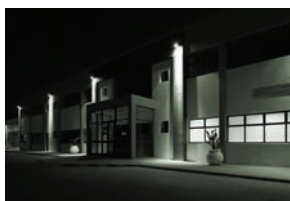
▲	Type	Cat.	Qty 1+	Qty 4+
4MP	Bullet	QV-9014	\$199.00	\$178.95
4MP	Dome	QV-9016	\$199.00	\$178.95

STARLIGHT CAMERAS

1080p AHD Starlight Cameras

Starlight is a revolutionary new sensor technology, providing increased clarity and full colour in low light conditions. Traditionally, low light applications required infrared LEDs to "invisiblely" illuminate the field of view (since infrared isn't visible to the human eye it's better than floodlights in many circumstances). However using a narrow portion of the light spectrum results in one clear pitfall - no colour. Starlight addresses this issue by expanding the working shutter speed of the camera to allow much more light in. The result is a clear, full colour image even in extremely low light. It should be noted that starlight cameras cannot see in total darkness (ie, zero light). There must be some available light for them to operate well, or use traditional infrared illumination support. Ideal applications that benefit most from Starlight features would be nightclubs, restaurants, retail situations with mood lighting. Everything else about these cameras is consistent with the quality you expect, with full 1080p Analogue High Definition (AHD) signal, and durable housings. Available as a dome or a bullet camera configuration. They feature a vari-focal 2.8-12mm lens for optimum coverage, and the built-in infrared LEDs will cater for ultra-dark scenarios. That way you know you're covered for just about anything!

- Sony® Starvis IMX291 Starlight sensor
- Built-in infrared for zero light situations



Regular CMOS night time viewing



Using Starlight technology



QC-8678

QC-8680

Due June 2017

SPECIFICATIONS BOTH

Image Sensor	1/3" CMOS
Resolution	1080p (1920 x 1080)
Shutter Speed	1/25 - 1/500000s
Frame Rate	25fps
Lens	2.8-12mm
Min Illumination	0.0001 Lux
IR LEDs	4pcs
IP Rating	IP66
Power	12VDC @ 1A (mains adaptor included)
Weight	Bullet: 576g (QC-8678), Dome: 620g (QC-8680)
Dimensions	Bullet: 105(W) x 290(D) x 194(H)mm (QC-8678), Dome: 145(Dia) x 89(Dia.)mm (QC-8680)

SONY
SENSOR INSIDE

FEATURES



1080p Camera

1 YEAR
Warranty

▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	Bullet	QC-8678	\$199.00	\$179.00	\$169.00
1080p	Dome	QC-8680	\$199.00	\$179.00	\$169.00

PAN TILT ZOOM CAMERAS

720p AHD Pan-Tilt Bullet Camera with IR

This pan and tilt bullet camera utilises a 1/3 Sony® 225 CMOS sensor which delivers 720p AHD high quality resolution video. Allows you to control the pan and tilt camera directly from the DVR or associated smartphone app using our AHD DVR's. This unit communicates by RS-485 which connects directly to the DVR with the included cable to control the 0 to 250° panning and -5 to 60° tilt angle. Other functions include Up-The-Coax (UTC) and 4 high powered infrared LEDs that give up to a 50m night vision range. Includes power supply and 18m video, power and RS-485 cable.

SPECIFICATIONS	QC-8670
Image Sensor	1/3" CMOS
Sensor Brand	Sony® 225
Resolution	720p (1280 x 720)
Frame Rate	25fps
Lens	4.0mm
Pan Angle	0 - 250°
Tilt Angle	-5 - 60°
Pan Tilt Interface	RS-485
IR LED	4pcs
IR Distance	30-50m
IP Rating	IP66
Power	12VDC, 1.5A
Dimensions	153(L) x 130(H) x 93(W)mm (Including Bracket)


SONY
SENSOR INSIDE

FEATURES



720p Camera

1 YEAR
Warranty

▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
720p	Pan-Tilt	QC-8670	\$219.00	\$196.95	\$185.95

1080p AHD Pan-Tilt-Zoom Bullet Camera

This pan and tilt bullet camera utilises a 1/3 Sony® 323 CMOS sensor which delivers 1080p AHD high quality resolution video. Allows you to control the pan and tilt camera directly from the DVR or associated smartphone app using our AHD DVRs. This unit communicates by RS-485 which connects directly to the DVR with the in-cluded cable to control the 0 to 250° panning and -5 to 60° tilt angle. Other functions include Up-The-Coax (UTC) and 4 high powered infrared LEDs that give up to a 50m night vision range.

Due August 2017

SPECIFICATIONS	QC-8676
Image Sensor	1/3" CMOS Sony® 323
Resolution	1080p (1920 x 1080)
Frame Rate	25fps
Lens	4.0mm
Pan Angle	0 - 250°
Tilt Angle	-5 - 60°
Pan Tilt Interface	RS-485
IR LED	4pcs
IR Distance	30-50m
Power	12VDC @ 1.5A
Water Ingress Rating	IP66
Dimensions	97(W) x 170(H) x 245(D)mm (Including Stand)


SONY
SENSOR INSIDE

FEATURES



1080p Camera

1 YEAR
Warranty

▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	PTZ	QC-8676	\$299.00	\$269.00	\$249.00

PTZ CAMERAS & CONTROLLERS

Most standard CCTV cameras in our catalogue have a fixed lens so the picture you see on the monitor will always be focussed on the same position.

A PTZ (Pan Tilt Zoom) camera allows you to control the camera to pan, tilt or zoom to an object in the field of view. Traditionally, PTZ cameras required a PTZ controller in-line with the DVR and camera in order to control the camera.

With our range of AHD (Analogue High Definition) DVRs there is no need to purchase an external PTZ controller as it is complete with RS-485 inputs and connect directly from the PTZ camera to the DVR. Remotely using either the DVR controls or via the free Smartphone app to pan, tilt or zoom.

SHOW US YOUR BUILD COMPETITION

Ross, who shops at our
Jaycar Tuggerah store built:

Arduino powered nerf sentry gun with
autonomous mode with logo
recognition or colour tracking.



WI-FI IP CAMERAS

720p High Definition Indoor Rechargeable Wi-Fi Camera

Connects to your Wi-Fi network and streams high definition video with audio to a computer or Smartphone on or outside the network with password access. Setup is a breeze too using the built-in P2P technology - no confusing IP or router settings

- Works with Smartphone via Wi-Fi and free App.
- Easy and friendly user interface
- Easy to save photos and video to Smartphone
- Built-in Motion detector and night vision
- Support H.264 Video Compression, 720p HD Video quality
- Support operating system 5.1(iOS®) / 4.2(Android®) or higher

needed! There is an APP so you can put 3-4 cameras like this in your workplace, home or anywhere needed and monitor via your Smartphone. The built-in battery allows you to locate it away from power for a few hours for a temporary surveillance application.

- Battery Life: 2 hours (rechargeable battery)
- Dimensions: 75(D) x 43(H) x 38(W)mm

View live footage
on a Smartphone
Smartphone not included



	Cat.	Qty 1+
720p HD Indoor Wi-Fi Camera	QC-3848	\$119.00

720p High Definition Wi-Fi IP Camera with Standalone Recording

This amazing little camera features high quality 720p video capture direct to your Smartphone. Ultra-simple setup and by downloading the app for Apple or Android devices, you can quickly configure and monitor up to 15 cameras. You can then setup alerts for motion detection from the cameras, record or screenshot the video feed to your device, and configure the camera. By installing your favourite microSD card and connecting it to Wi-Fi, you can set the camera to record video for you which you can review at any time. The camera also features integrated infrared night vision, microphone for audio recording. Simple to setup and use!

- View live footage on your smartphone
- 720p recording
- Intelligent motion detection alerts
- Connect up to 15 cameras to your device
- Sound pairing setup
- Free app on iTunes & Google Play
- Magnet base
- 2 way audio communication
- Motion detection & manual recording

View live footage
on a Smartphone
Smartphone not included



Due May 2017

SPECIFICATIONS	QC-3835
Image Sensor	1/4 CMOS
Megapixel	1.0
Resolution	720p (1280 x 720)
Frame Rate	30fps
Video Compression	H.264
Viewing Angle	110°
Night Vision	10 x IR LEDs
Storage (microSD)	Up to 32GB
Power Consumption	5VDC, 500mA
Power Supply	5VDC, 1A
Dimensions	60(W) x 70(H) x 57(D)mm, 96g



	Cat.	Qty 1+	Qty 2+	Qty 4+
720p HD Wi-Fi	QC-3835	\$119.00	\$106.95	\$100.95

720p High Definition PIR Pinhole with Wi-Fi Camera

Housed within this Wi-Fi PIR is a pinhole camera which records video in 720p high definition to a microSD card (available separately) or on your Smartphone. Once movement is detected it will send an alert to your Smartphone. Discrete infrared LED's help illuminate a dark room, and there is a microphone built-in so you can listen in the room via your Smartphone. Suitable for almost any area which needs monitoring covertly. Supplied with a mains power adaptor, 3m Power Cable, mounting bracket & mounting hardware.

- Video & Image Recording
- Supports iOS® & Android Smartphones
- Alarm Notification Via Smartphone App
- One Way Audio Via Smartphone App
- Motion Trigger Recording
- Plug & Play (P2P) Technology, Easy Network Setup

View live footage
on a Smartphone
Smartphone not included



SPECIFICATIONS	QC-3860
Resolution	720p (1280 x 720), VGA (640 x 480)
Frame Rate	720p @ 25fps, VGA @ 25fps
Viewing Angle	70°
Video Format	ASF (H.264)
Infrared	23 x IR LED's
Wi-Fi Range	up to 50m
Frequency	2.4GHz
Storage	up to 32GB microSD card
Power Supply	6VDC, 800mA
Dimensions	103(L) x 60(W) x 29(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
720p HD Wi-Fi Pinhole Camera	QC-3860	\$149.00	\$133.95	\$125.95

720p High Definition Outdoor Wi-Fi Camera

With the incorporated (P2P) plug-and-play technology this tough external camera equipped with Infrared LEDs for night monitoring is one of the easiest video security products to setup. View live footage on your Tablet or Smartphone in minutes. Unlike traditional digital network cameras, there is no specialised IT technical expertise required during installation. No router setup required. No port forwarding to be done, a static IP address is not required from your internet service provider.

All of this highly technical expertise is simply not needed to install this camera, making it a breakthrough in technology, and one of the easiest to install tablet / Smartphone connect security camera products ever.

View live footage
on a Smartphone
Smartphone not included



SPECIFICATIONS	QC-3846
Sensor	1/3" colour CMOS sensor
Sensor resolution	720 x 1280 at 25fps
Horizontal resolution (H x V pixels)	720TV@ 25fps
Minimum illumination	0.01Lux
IR illumination	12 LEDs
Wireless Security	WEP, WPA, WPA2
Wireless Distance	50m (Clear Line of sight)
Effective IR range	Up to 12 metres
Lens	3.6mm lens, 90° angle
IP rating	IP66
Power supply	5VDC (included)
Dimensions	155(L) x 87(W) x 73(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
720p HD Outdoor Wi-Fi Camera	QC-3846	\$169.00	\$151.95	\$142.95

WHAT IS AN IP CAMERA?

An IP camera is a networked digital camera that transmits data over a fast Ethernet link. IP cameras (also called "network cameras") are most often used for IP surveillance, a digitized and networked version of closed circuit television (CCTV).

The benefits of IP cameras over analogue technology include:

- Remote administration from any location
- Digital zoom
- The ability to easily send images and video anywhere with an Internet connection
- Progressive scanning, which enables better quality images extracted from the video, especially for moving targets
- Adjustable frame rates and resolution to meet specific needs

- Two way communications
- The ability to send alerts if suspicious activities are detected
- Lower cabling requirements
- Support for intelligent video

It should be noted that IP surveillance has greater complexity and bandwidth requirements.

TECH TALK



WI-FI IP CAMERAS - PAN/TILT

720p High Definition Wi-Fi Pan & Tilt Camera

Featuring Pan/ Tilt functionality and incorporated (P2P) plug-and-play technology, this Wi-Fi IP camera is the way to go. This model features a 720P camera that produces a bright and sharp vision for you to survey the home or office. The audio is two way, so you can plug in a microphone to hear sound remotely. You can also connect a speaker to be able to transmit audio to those near the camera (speaker is not included). It can trigger the capture of still images or video when motion or sound is detected as well as send an email. It can be setup to capture to a micro SD card (available separately).

The sensitivity of the capture source can be adjusted. You can also wire up an alarm (available separately) to this unit and set it to sound when motion or sound is detected.

- View live footage on your Tablet or Smartphone in minutes.

View live footage on a Smartphone
Smartphone not included



SPECIFICATIONS	QC-3844
Sensor	1/3" colour CMOS sensor
Horizontal resolution	720TVL@ 25fps
Minimum illumination	0.01 Lux
IR illumination	8 LEDs
Wireless Security	WEP, WPA, WPA2
Wireless Distance	50m (Clear Line of sight)
Effective IR range	Up to 12 metres
Lens	3.6mm lens, 90° angle
Power supply	5VDC (included)
Current draw	90mA (IR OFF), 400mA (IR ON)
Still Image Capture	1280 x 720pixels
Pan/Tilt angle	320° Pa, 120° Tilt
Dimensions	125(H) x 100(W) x 95(L)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
720p HD Wi-Fi Pan Tilt Camera	QC-3844	\$119.00	\$106.95	\$100.95

720p High Definition Pan/Tilt/Zoom Wi-Fi IP Camera

Nothing beats the versatility of a true Pan / Tilt / Zoom (PTZ) camera for keeping an eye on a diverse area. It provides you full control to modify the field of view and area your camera is monitoring. It connects to your Wi-Fi so installation is a breeze - just pick your position and apply power! The 720p vision will come streaming through, which you can record to your favourite SD card in the camera. Night vision LEDs are included so you're never in the dark, while monitoring can be controlled via the free app on your Smartphone, and you can even speak to the person on camera thanks to the onboard microphone and speaker.

View live footage on a Smartphone
Smartphone not included



SPECIFICATIONS	QC-3837
Lens	1 Megapixel 1/4 CMOS
Resolution	720p (1280 x 720)
View Angle	66° Horizontal, 38° Vertical
Pan/Tilt Angle	270° Horizontal, 120° Vertical
Alarm	Motion Detection
Night Vision	5-7m
Audio	Built-In Microphone/Speaker
Storage	Up to 32GB microSD
Video Compression	H.264
Mobile Operating System	Android 4.0 or Higher, iOS 7.0 or Higher
Power	5VDC 1A
Dimensions	105(H) x 82(Dia.)mm



Due July 2017

	Cat.	Qty 1+	Qty 2+	Qty 4+
720p PTZ	QC-3837	\$149.00	\$133.95	\$125.95

WIRED IP CAMERAS

720p IP Outdoor Camera with PoE

Sleek 720p HD IP Camera with 1.3MP CMOS Sensor and 3.6mm lens to suit QV-3130 & QV-3132 NVR.

Also works as a standalone camera.

- 1.3 Megapixel CMOS Sensor
- 24 Led light, 20m IR Range
- H.264 Compression Format
- Supports P2P, Video Push

View live footage on a Smartphone
Smartphone not included



SPECIFICATIONS	QC-3131
Effective Pixels	1280 x 720
Illumination Color	0.5 LUX (IR ON)
Lens	3.5 mm
Day/Night IR distance	20 metre
S/N Ratio	>50 dB
Dimensions	290(L) x 80(W) x 80(H)mm



	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
720p	Bullet	QC-3131	\$139.00	\$124.95	\$117.95

1080p IP Outdoor Camera with PoE

This 1080p Infrared Bullet IP camera can be powered via Power over Ethernet (PoE) connecting to a PoE switch or PoE supported NVR. Depending on your application; it can also be connected using a 12VDC power supply (not included). It features 1080p high resolution recording and can be mounted in any indoor or outdoor situation. This IP camera is ideal for work or home applications and can be connected via the software provided or your Smartphone.

- Supports iOS® & Android Smartphones
- Powered by 12VDC power supply or Power over Ethernet (PoE)
- Plug & Play (P2P) Technology, Easy Network Setup

View live footage on a Smartphone
Smartphone not included



SPECIFICATIONS	QC-3122
Image Sensor	1/3" CMOS, 2.0MP
Resolution	1080p (1920 x 1080), D1 (720 x 576), CIF (352 x 288)
Frame Rate	1080p@25fps Single Ch, D1@25fps Multi Ch, CIF@20fps Mobile
Min Illumination	0.03 Lux @ F1.2
Video Format	AVI (H.264)
Lens	3.6mm Fixed Focal
Infrared	30 x IR LED's
Network Interface	1 x RJ-45 10/100Mbps
IP Rating	IP66
Power	12VDC, 1A / Power over Ethernet (PoE)
Dimensions	150(L) x 63(Dia)mm



	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	Bullet	QC-3122	\$169.00	\$151.95	\$142.95

IP OR NETWORK SURVEILLANCE

TECH TALK



IP surveillance is a digitized and network version of closed circuit television (CCTV). In an IP surveillance system, an IP camera records video footage and the resulting content is distributed over an IP (Internet Protocol) network.

Digitisation offers a number of benefits over traditional analogue CCTV including:

- Improved search capabilities & greater ease of use
- Better quality images and no degradation of content over time
- The ability to record and play at the same time
- The ability to compress content for improved storage

Adding networking capabilities to digital CCTV provides additional benefits, including:

- Improved ability for remote viewing & control. Anyone on the network with password access can potentially see video from any camera connected to the network.
- IP Storage makes it possible to store data in any geographical location
- Greater ease of distribution. An image of a crime suspect, for example, can immediately be distributed to officials.
- The ability to connect to email and other communications systems so that alerts can be sent automatically.

CCTV LEADS & ACCESSORIES

DC Power Leads - 2.1mm Plugs to Socket

Run multiple devices from a single power supply or extend the low voltage cable between a plugpack and a device. Ideal for surveillance applications and available in a range of versions to suit many applications. All cables are pre-made with moulded DC plugs and sockets.

- Three types available.
- DC Plug / Socket Dimensions:
2.1(ID) x 5.5(OD) x 10(L)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
1 Socket to 2 plugs - 200mm	WQ-7280	\$7.95	\$6.95	\$6.75
1 Socket to 2 plugs - 2 metres	WQ-7284	\$8.95	\$7.95	\$7.50
1 Socket to 4 plugs - 800mm	WQ-7281	\$9.95	\$8.75	\$8.25

CCTV Video & Power Cable

- BNC terminated
- Male DC plug on one end, female DC socket at the other
- 18m length



▲ Length	Cat.	Qty 1+	Qty 2+	Qty 4+
18m	WQ-7279	\$19.95	\$17.95	\$16.95

CCTV Camera Power Extension Lead

Extend the plugpack lead for CCD cameras.

- Consists of 2.1mm male to female
- Plug OD 5.5mm



▲ Length	Cat.	Qty 1+	Qty 2+	Qty 4+
5 metre	WQ-7285	\$9.95	\$8.75	\$8.25

CCTV Camera Extension Leads

The easy way to extend the length of CCD camera cables. The leads have 3 joined cables, BNC plug to plug, RCA plug to plug, and DC power male to female. The video cable used is quality RG59U, and the power cable for the shorter lengths is 24 gauge, and the 2 longer lengths are 18 gauge.



▲ Length	Cat.	Qty 1+	Qty 2+	Qty 4+
5 metre	WQ-7275	\$19.95	\$17.95	\$16.95
10 metre	WQ-7276	\$34.95	\$31.45	\$29.70
15 metre	WQ-7277	\$44.95	\$40.45	\$38.20
20 metre	WQ-7278	\$59.95	\$53.95	\$50.95

CCTV Video & Power Extension Cable

Universally compatible BNC security camera extension leads suitable for analogue (AHD/TVI) cameras. Weatherproof when sheltered, and white in colour to suit home and office interiors. Includes BNC female adaptor for attaching to existing cables.



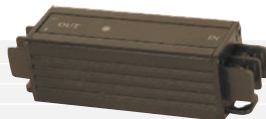
▲	Cat.	Qty 1+	Qty 2+
30m	QV-9018	\$29.95	\$26.95
60m	QV-9020	\$49.95	\$44.95

CAMERA POWER SUPPLIES

AC/DC - DC Converter 24 - 12VDC 1A

Trying to get power for CCTV and security cameras over a long run without losses is challenging to say the least. Solve the problem quickly and easily by sending 24VAC down the long run, then converting it to 12VDC when you get it where you need it. Connection is by screw terminals

SPECIFICATIONS	MP-3350
Input	20 - 28VAC, 16 - 30VDC
Output	12VDC regulated
Output current	1A max
Dimensions	90(L) x 25(W) x 25(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC / 24VDC 1A	MP-3350	\$39.95	\$35.95	\$31.95

CCD Camera Power Supplies

12VDC regulated plugpack ideal for CCD cameras.

- Terminates to a 2.1mm ID / 5.5mm OD DC plug, centre positive



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
12VDC 500mA	MP-3011	\$19.95	\$17.95	\$15.95
12VDC 1.5A	MP-3486	\$24.95	\$22.35	\$19.70

2.1mm DC Connectors

PA-3711



PA-3713



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 50+
Plug - Screw Terminals	PA-3711	\$4.95	\$4.45	\$3.95
Socket - Screw Terminals	PA-3713	\$4.95	\$4.45	\$3.95

BNC with Terminals



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Screw Terminal	PA-3715	\$4.95	\$4.45	\$3.95

BNC Adaptors

PA-3665



PA-3663



▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
BNC Plug to BNC Plug Adaptor	PA-3665	\$4.95	\$4.45	\$3.90
BNC Plug to BNC Socket R/A	PA-3663	\$4.95	\$4.45	\$3.90

BNC Plug to BNC Plug

RG-59U coaxial cable



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	WV-7300	\$9.95	\$8.75	\$7.75

Microphone/Amp for CCTV Cameras

Easy add-on mini microphone with built-in amp for cameras that require an audio function. Simple to install and ideal for all surveillance applications.

- High sensitivity microphone (-65dB)
- 12VDC operation



▲ Length	Cat.	Qty 1+	Qty 2+	Qty 4+
500mm	QC-3434	\$24.95	\$22.45	\$20.95

External CCTV Camera Housing Mounting Bracket

This heavy-duty aluminium bracket is designed to mount our large indoor/outdoor professional camera housing and professional range of CMOS cameras. It is suitable for either internal or external use and the camera angle is fully adjustable. Mounting screws and wall plugs included.

- Maximum payload 8kg
- Supplied in silver finish
- Bracket height is 290mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	QC-3337	\$19.95	\$17.95	\$16.95

SURVEILLANCE ACCESSORIES

Power-Over-Ethernet (PoE) Passive Kit

PoE allows transfer of electrical power, along with data, over twisted pair cables. Finding a power supply is a common obstacle in LAN installations: PoE allows you to power wireless access points or other equipment via a Cat 5 cable without the need to have a separate power source available.

- You simply connect a plugpack of the required voltage via the 2.1mm DC connector, then tap it where you need it at the other end.



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲	YN-8410	\$14.95	\$13.45	\$11.95

Gigabit PoE Injector

Power Over Ethernet (PoE) devices are becoming more commonplace, such as IP cameras, telephones, and many more small devices which require a small amount of power to operate. However most conventional Ethernet switches do not natively support PoE. This device adds the power inline to a single network cable, working up to 100m, so you don't need mains power down the line at the device. It supports up to gigabit network throughput for ultra-fast connectivity, and is PoE IEEE 802.3at compliant.



SPECIFICATIONS	YN-8040
Input	1 x RJ45, 1 x AC Power Input
Output	1 x RJ45
Network	Gigabit up to 100m
PoE Output Power	52W @ 30W max
PoE Standard	IEEE 802.3at
Input Voltage	100-240VAC
Power Demand	35W max
PoE Power Supply End-Span	1/2, 3/6 spare line pair (default); mid-span: 4/5, 7/8 data line pair (can be customised)
Dimensions	118(W) x 60(D) x 38(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲	YN-8040	\$59.95	\$53.95	\$47.95

5 Port PoE Switch

Power Over Ethernet (PoE) simplifies installation for IP telephones, routers, IP cameras, and more. It reduces the need for mains power at each IP camera location, for instance, powering them from a central supply. Suitable for use up to 100m, it provides up to 30W per PoE port.



SPECIFICATIONS	YN-8074
Ports	1 x 10/100 RJ45
PoE Port Power	4 x 10/100 RJ45 High Power PoE
Max Combined PoE Power	30W (per port)
Backplane Bandwidth	65W
Max PoE Distance	1.6Gbps (non-blocking)
Network Protocols and Standards	IEEE 802.3i 10BASET, IEEE 802.3u 100BASETX, IEEE 802.3x Flow Control, IEEE 802.3af DTE Power via MDI
Power Input	IEEE 802.3at
Dimensions	100-240VAC @ 50/60Hz
	118(W) x 85(D) x 27(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 10/100Mbps	YN-8074	\$119.00	\$106.95	\$94.95

BALUNS

BNC to Cat5e/6 UTP AHD Video Balun Kit

Extend the transmission distance of your CCTV cabling without the need for a video amplifier. The balun accepts all composite video signals such as AHD, TVI and CVI. To use the baluns, strip away your UTP Cat5 cable at the ends and use a stranded pair connecting one wire to the positive terminal and the other to the negative terminal. Note the colour of the wires used and repeat the process at the other end. This kit includes two baluns; one to act as the transmitter and the other the receiver. It is suitable for CCTV setups, multimedia presentations and video conferencing.



SPECIFICATIONS	QC-3667
Network Cable	UTP Cat6, Cat5e, Cat5
Transmission Distance	up to 400m
Camera Support	AHD, TVI, CVI, Analogue
Dimensions	38(L) x 19(H) x 12(W)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	QC-3667	\$14.95	\$13.45	\$12.45

PoE Power Splitter

Power Over Ethernet (PoE) is one of the most convenient sources of sending power to remote devices available. But what if your device doesn't support PoE, but your network switch provides the functionality? This device splits the PoE into a regular ethernet, and 12VDC plug. This allows you to power small network switches, IP cameras, and all sorts of other devices which may not support PoE natively. Providing 10/100Mbps ethernet speeds and up to 1.25A to the 12V plug.

Due May 2017



SPECIFICATIONS	YN-8414
PoE Voltage Input	44-57V
Voltage Output	12VDC @ 1.25A Max
Connectors	1x RJ45 PoE socket, 1x RJ45 ethernet plug, 1x DC plug
Protocol	IEEE 802.3 i 10 BASE-T, IEEE 802.3u 100 BASE-TX, IEEE 802.3 x Flow Control, IEEE 802.3af Power over Ethernet
Data Rate	10/100Mbps
Dimensions	35(W) x 505(D) x 30(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	YN-8414	\$19.95	\$17.95	\$16.95

AHD to HDMI Converter

Analogue High Definition (AHD) is an amazing technology allowing high definition video to be transmitted over long distances. This unit allows you to monitor an AHD or analogue camera on your TV, computer monitor or projector using standard HDMI. It also provides AHD pass-through so the feed can still run to your DVR or other surveillance equipment. Switchable between 1080p and 720p resolution.



SPECIFICATIONS	AC-1778
Inputs	1 x BNC (AHD)
Outputs	1 x HDMI, 1 x BNC (AHD)
AHD Input Resolution	1080p @ 30Hz, 720p @ 60/50/30Hz
AHD Output Resolution	1080p @ 30Hz, 720p @ 60/50/30Hz
HDMI Resolution	1080p @ 60Hz, 720p @ 60Hz
AHD Cable Distance	Up to 500m
Power Supply	5VDC, 1A
Dimensions	90(W) x 58(D) x 26(H)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲	AC-1778	\$139.00	\$124.95	\$110.95

Long Range Infrared Spotlight

CMOS and CCD surveillance cameras are often designed with only minimal night vision range or sometimes without infrared LEDs at all. This high-power spotlight will add or increase your existing surveillance cameras infrared viewing range of up to 50 metres. The six built-in LEDs switch on automatically at night or when dark conditions are detected. The compact size of the spotlight is ideal where unobtrusive surveillance in low light areas is preferred, such as warehouses, driveways, backyards, alleyways and boundary line fences. Includes a 12VDC power supply and mounting hardware.

- Automatic day/night operation
- 180° Bracket Adjustment



SPECIFICATIONS	QC-3654
Infrared LEDs	6 x 3W
Infrared Angle	60°
Effective Infrared Range	up to 50m
IP Rating	IP65 Weatherproof
Power Supply	12VDC, 1.5A
Dimensions	165(L) x 84(Dia)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	QC-3654	\$79.95	\$71.95	\$67.95

BNC/RCA/Power to Cat5e/6 AHD Video Balun Kit

Simplify your CCTV installation by combining composite video, audio and power for transmission over one UTP Cat6, 5 or 5e cable. The balun accepts all composite video signals such as AHD, TVI and CVI. This kit includes two baluns; one to act as the transmitter and the other the receiver. It is suitable for CCTV setups, multimedia presentations and video conferencing.



SPECIFICATIONS	QC-3669
Network Cable	UTP Cat6, Cat5e, Cat5
Transmission Distance	up to 300m
Camera Support	AHD, TVI, CVI, Analogue
DC Connection	2.1mm
Supported Voltage	12-24VDC
Dimensions	60(L) x 28(H) x 19(W)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	QC-3669	\$29.95	\$26.95	\$25.45

SURVEILLANCE ACCESSORIES (CONTINUED)

19.5" LED Surveillance Monitor

A quality monitor is essential for any surveillance installation. The high resolution display will give you clear vision, with more than enough room to show a quad-display if you're viewing a DVR or other quad-display source. The LED backlight helps reduce heat and increase longevity of the monitor too. Audio in/out is provided so you don't need separate speakers to hear what's going on, if you're monitoring audio also. It is powered directly from mains power (mains to IEC cable supplied), and even includes a HDMI cable.



NEW
2017

SPECIFICATIONS	QM-3580
Panel Size	19.5"
Aspect Ratio	16:9
Resolution	1600 x 900
Brightness	200cd/m ²
Response Time	5ms
Contrast Ratio	1000:1
Inputs	HDMI, VGA, BNC, S-Video, and a 3.5mm Audio
Outputs	BNC and a 3.5mm Audio
Speakers	2 x 2W
Dimensions	350(H) x 467(W) x 164(D)mm (Including Base)

1
YEAR
WARRANTY

▲	Type	Cat.	Qty 1+
▲	19.5"	QM-3580	\$269.00

3.5" Purple 2TB Surveillance HDD 64M SATA3

The purple range of western digital drives are built for 24/7 always on surveillance. They are drop in replacements for desktop drives which aren't designed for the harsh always-on high-definition surveillance environment. This range has been specifically engineered for a high level of compatibility with DVR systems and are equipped with AllFrame technology which reduces frame loss, improves playback and increases number of drive bays supported. With exclusive IntelliSeek™ technology, WD Purple drives calculate the optimum seek speeds which lowers power consumption, noise and vibration that can damage and cause drives to wear out more quickly. When you invest in a premium surveillance-class drive you worry less while enjoying the benefits over a longer period of time.

- Power requirements
- Read/write: 4.4W
 - Idle: 4.1W
 - Standby and sleep: 0.4W

WD Western Digital



See page 405 for our
2.5" 1TB Notebook HDD

SPECIFICATIONS	XC-5682
Form factor	3.5"
Buffer to host transfer speed	6Gbps
Host to/from drive (sustain)	145Gbps
Operating temperature	0-65°C
Idle acoustics	23dBa
Seek acoustics (average)	24dBa
Dimensions	147(L) x 101.6(W) x 26.1(H)mm, 640g

1
YEAR
WARRANTY

▲	Type	Cat.	Qty 1+
▲	3.5"	XC-5682	\$199.00

SPECIAL APPLICATION CAMERAS

600TVL Hidden Camera Mirror

Designed for use where concealed high security is the main requirement such as retail stores, offices, museums, art galleries etc. To most people it looks like a simple convex security mirror but embedded behind the patented reflective layer is a 600TVL security camera.

- Features built-in colour digital noise reduction
- 3.6mm lens with standard BNC for connection to your DVR
- Ideal size for easy wall mounting.



FEATURES



SPECIFICATIONS	QC-8631
Image Sensor	1/3" colour
TV System	Ex-view CCD
Resolution	PAL/NTSC
Power	600TVL
Requirement	12VDC (use MP-3011)
Current draw	500mA
Dimensions	350(Dia) x 200(H)mm

▲	Type	Cat.	Qty 1+
▲	600TVL Mirror	QC-8631	\$79.95

800TVL Hidden Camera - PIR Appearance

High quality camera disguised inside a housing that appears to look like a PIR. The power and video cables exit through the rear of the unit so are relatively concealed from prying eyes.

- Housing is compact and will fit unobtrusively in the corner of any room
- Equipped with a high resolution 800TVL Sony® sensor for superior image capture.

SONY
SENSOR INSIDE

NEW LOW PRICE



SPECIFICATIONS	QC-8652
Sensor	Sony® 1/3" CCD
Sensor brand	Sony® SuperHAD II
Sensor resolution (H x V pixels)	976 x 582
Resolution (horizontal TV lines)	800
Minimum illumination (lux)	0.01 (IR off) / 0 (IR on)
Lens	3.7mm
With UTC (Up the Coax) OSD control	
Power supply	12VDC
Current draw	200mA
Dimensions	47(L) x 47(W) x 120(H)mm

FEATURES



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	800TVL PIR	QC-8652	\$99.95	\$89.95	\$84.95

LCD Clock with Hidden 720p Camera - Standalone

A full function LCD clock with a hidden 720p high definition camera. Set it up in an area of concern and it will detect motion then commence recording footage in high definition (1280 x 720) onto a microSD card. Playback the files on a computer using the supplied USB cable to see what really happened. An infrared remote control is also included so you can manually record. It includes a rechargeable battery, which can be recharged from a USB port of a computer or USB adaptor with the supplied cables. It is a fully functional clock, with time, date, alarm and three brightness settings. Includes a 4GB microSD card.



FEATURES



SPECIFICATIONS	QC-8660
Resolution	720p (1280 x 720)
Video Format	AVI
Viewing Angle	120°
Charge Time	up to 3 hours
Run Time	up to 3 hours
Storage	up to 32GB microSD card (4GB included)
Dimensions	115(W) x 68(H) x 38(D)mm

▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	LCD Clock Camera	QC-8660	\$129.00	\$115.95	\$109.95

800TVL Hidden Camera - Smoke Detector Appearance

High quality camera disguised inside a housing that appears to look like a smoke detector. The power and video cables exit through the base of the unit so are completely concealed from prying eyes and cutters.

- Housing is compact so will fit unobtrusively on the ceiling
- Equipped with a high resolution 800TVL Sony® sensor for superior image capture.

SONY
SENSOR INSIDE

NEW LOW PRICE



SPECIFICATIONS	QC-8650
Sensor	Sony® 1/3" CCD
Sensor brand	Sony® SuperHAD II
Sensor resolution (H x V pixels)	976 x 582
Resolution (horizontal TV lines)	800
Minimum illumination (lux)	0.01 (IR off) / 0 (IR on)
Lens	3.7mm
With UTC (Up the Coax) OSD control	
Power supply	12VDC
Current draw	200mA
Dimensions	110(Dia) x 60(H)mm

FEATURES



▲	Type	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	800TVL Dome	QC-8650	\$99.95	\$89.95	\$84.95

STAND ALONE CAMERAS WITH RECORDING

Outdoor 5MP Security Camera with PIR

A motion activated weatherproof camera suitable for outdoor domestic security applications. It will record video in 720p quality when motion is detected for you to playback later on a computer or TV.

- Features a bright 38 LED infrared light to illuminate objects at night, LCD status display, and schedule function
- SD card is required (available separately) as well as 4 x C batteries, which can last for months
- Option for a 6VDC power supply (use MP-3145)
- Easy to install and operate



SPECIFICATIONS		QC-8027
Operation	Day/Night(24hours), Day (Colour)/Night (Black/White)	
Image Sensor	5MP Colour CMOS sensor	
Picture Resolution	8MP max	
Video Resolution	1280 x 720(20fps) with Audio	
Lens	50° Field of View	
IP Rating	IP66	
IR Range	Up to 9m	
IR Illumination	38 IR Emitters	
Time Lapse	5 - 600 seconds programmable	
Delay Time	1 - 600 seconds programmable	
Stamping	Date/Time stamped on still image/video	
User Interface	Bottom control panel with LCD Display	
External Memory	SD-card up to 32GB	
Ports	TV Out, USB, SD Card, 6V DC	
Video output	PAL, NTSC	
Power Supply	4 x C cells or 6VDC (not included)	
Dimensions	140(H) x 75(Dia)mm, 280g	



	Cat.	Qty 1+	Qty 2+	Qty 4+
▲ 5MP Outdoor Camera	QC-8027	\$189.00	\$169.95	\$160.45

Motion Activated Outdoor Camera with IR Flash

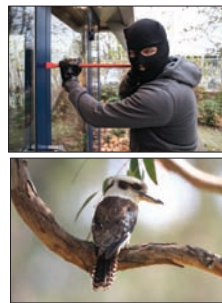
A weather resistant outdoor camera for a wide range of outdoor applications, including surveillance around the home, office or warehouse, or for wildlife applications. The PIR sensor triggers the 7MP camera for colour photos & videos by day or monochrome photo & videos by night. Night vision is assisted using the bright IR flash, which illuminates objects up to 12 metres away.

Photos and videos up to 90 seconds long are recorded to its 16MB internal memory or an SD Card (up to 32GB, available separately) for more storage. Playback the vision on the integrated colour LCD screen while in the field, or by connecting to a PC.

Other features include a fast 1.3sec trigger time, highly sensitive microphone, TV output, and security lock hole for a padlock. Power is provided by 4 x D and 3 x C batteries (batteries required). We recommend Alkaline batteries for longer operation. Supplied with USB and TV cable, mounting strap, lens hood and instruction manual.

- 3MP camera (up to 7MP Interpolated)
- Adjustable sensitivity (motion sensor)
- Time lapse
- 5mm /8mm mixed infrared LED technology for wide and longer illumination
- Fast trigger time 1.3s at turbo mode
- Separate controls for camera and sensor, ideal to instant setup directly
- Time and Date stamp
- Built-in 2.4" TFT screen
- Backlit for Motion control LCD
- Pause time: 0-60 minutes
- Video length: 3-90s for day and night
- 1-3 Quick Shots setting
- 2-5 Burst Shots setting

SPECIFICATIONS		QC-8048
Video resolution	HD 1280 x 720 at 30fps	
Power	4 x D & 3 x C Batteries required	
Weight	518gm without batteries	
Dimensions	192(H) x 120(W) x 90(D)mm	



QC-8048

WARNING

These cameras should not be placed in areas where there is an expectation of privacy. Such places typically are: bathrooms, bedrooms, toilets, dressing rooms etc. Use of these devices in such locations, can lead to criminal prosecution and severe penalties.

Solar Panel Charger

A solar panel add-on to suit the QC-8048 outdoor camera to allow continuous operation without the need to worry about battery levels again. Features an in-built 3000mAh battery which recharges via the solar panel. Includes a solar panel regulator, in-built battery, mounting bracket and hardware.

- Solar Panel: Polycrystalline
- Solar Output: 3W
- Battery: 3.7V, 3000mAh
- Solar Panel Charge Time: 5-7 hours
- IP Rating: IPX5
- Dimensions: 230(L) x 160(W) x 18(D)mm

Cat. QC-8045



IR Wired Flash

Gooseneck sensor on the booster is triggered by the cameras built-in flash so both will occur synchronously. Features 36 wide angle IR LEDs and a 2m cable.

- Extension port to 'daisy chain' multiple flash units
- Adjustable illumination angle
- Requires 2 x D Batteries or 3VDC power supply
- Dimensions: 115(H) x 57(W) x 90(D)mm

Cat. QC-8042



IR Wireless Flash

Wireless unit will detect a flash from the main outdoor camera and simultaneously flash to give more IR coverage to the target. The 128 infrared LEDs are invisible to the human eye. Belt mount so it can be attached to a tree or pole.

- Supplied with transmitter with antenna, belt.
- Adjustable illumination angle
- Requires 4 x D Batteries or 6VDC powered
- Dimensions: 145(H) x 100(W) x 70(D)mm

Cat. QC-8044



Security Bracket to suit

Mount your QC-8048 Outdoor Camera securely to a tree using this tough anodised camouflage green bracket. Four mounting holes for screws or cable ties, and keep in place using padlocks (not included).

- Dimensions: 173(L) x 153(W)mm

Cat. QC-8046



	Cat.	Qty 1+	Qty 2+	Qty 4+
▲ 3MP Outdoor Camera with built-in screen	QC-8048	\$179.00	\$160.95	\$151.95
Solar Panel to suit	QC-8045	\$169.00	\$151.95	\$142.95
IR Wired Flash to suit	QC-8042	\$79.95	\$71.95	\$67.95
IR Wireless Flash to suit	QC-8044	\$99.95	\$89.95	\$84.95
Bracket for QC-8048	QC-8046	\$12.95	\$11.35	\$10.95

WI-FI

720p Wi-Fi Video Doorphone with Smartphone App

This Wi-Fi enabled video doorphone allows you to interact with your visitors even when you are not home. You will be able to look at, talk to and even open the door for your guest (doorstrike available separately) over your Smartphone or Tablet via the internet. For the unexpected guests, you can choose to take photo or record video at a push of a button on your phone or simply turn on the motion detection mode for constant security surveillance. Photos and 720p videos are recorded on a microSD card (up to 32GB and available separately) and also uploaded to a cloud server via Wi-Fi or Ethernet connection. The recordings on the cloud server can be accessed and viewed at any time and also by multiple users via the free apps available for both Android and iOS. The doorphone is IP55 weatherproof and also has IR illumination built-in for day and night operation. Mains power supply included. Includes external audio buzzer, power supply, 3m power lead and mounting hardware.

- Video & Image Recording
- Motion Trigger Recording
- 2 Way Audio Intercom
- Tamper Alarm
- Ethernet & Wi-Fi Connection
- Remote Unlock (door strike available separately)
- Supports iOS® and Android Smartphones
- Plug & Play (P2P) Technology, Easy Network Setup

iOS and Android Apps available for download from the App Store and Google Play.

SPECIFICATIONS	QC-3698
Resolution	720p (1280 x 720) @ 30fps VGA (640 x 480) @ 30fps
IP Rating	IP55
Storage	supports up to 32GB microSD Card
Input Voltage	9-16VDC / 9-16VAC
Power Supply	9VDC, 2A included
Dimensions	142(H) x 85(W) x 55(D)mm (including bracket)

AUDIO BUZZER	QC-3698
Frequency	433MHz
Battery	Requires 2 x AA
Dimensions	95(H) x 61(W) x 20(D)mm

View live footage on a Smartphone
Smartphone not included



	Cat.	Qty 1+
Wi-Fi Video Doorphone	QC-3698	\$149.00

WIRED

7" Slimline Video Doorphone

A stylish, elegant and simple to use doorphone that will not look out of place in your home or office. This 7" video doorphone kit is supplied with a slimline 7" monitor finished in white matt colour. It comes with an IP55 rated infrared camera that incorporates a rain shield to protect it from the elements. Operation is very simple, you are able to communicate with your guests with amazing clarity and be able to allow entry at a press of a button (door strike available separately). You are able to expand the system by adding an extra monitor (available separately).

- Brightness and colour adjustments
- Ring Tone Selection
- Doorbell volume control
- Infrared illumination for night time operation

SPECIFICATIONS	QC-3696
Power supply	12VDC
Resolution	420 TV lines
Monitor Dimensions	119(H) x 208(W) x 22(D)mm
Camera Dimensions	159(H) x 120(W) x 38(H)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
Slimline Video Doorphone with 7" Monitor	QC-3696	\$209.00	\$187.95	\$166.95
Spare Monitor	QC-3699	\$159.00	\$142.95	\$126.95

2.5" LCD Video Doorphone with RFID Access

Enjoy the peace of mind a video doorphone can bring. This stylish and high quality unit consists of an outdoor camera with door bell/entry button as well as RFID access and a separate indoor 2.5" LCD for easily identifying visitors. With the indoor unit, you can remotely lock/unlock the door (door lock available separately), switch on video and answer calls. The outdoor camera uses 6 x white high brightness LEDs to illuminate visitors at night. Pressing the bell button on the outdoor camera will signal a bell warning on the indoor unit which can be answered like a regular telephone. You can then verbally communicate and see video footage of your guest.

RFID keys can be programmed for access so regular users of the system are granted entrance by simply placing their tag over the outdoor camera unit. 3 tags are included with the unit, a master, slave, and delete tag. Use the master tag to program new slave tags (standard RFID cards can be used), and use the delete tag to remove tags from the system. A versatile device suitable for home use, or offices that require some form of access identification/authorisation for staff or frequent visitors.

- 2.5" Colour LCD
- Outdoor camera dimensions: 142(H) x 92(W) x 40(D)mm
- Monitor dimensions: 180(H) x 79(W) x 33(D)mm

Spare RFID tag available separately - QC-3623



	Cat.	Qty 1+
Video Doorphone with 2.5" LCD	QC-3622	\$219.00
Spare RFID Tag	QC-3623	\$7.95

DOORBELLS

Wireless Doorbell

Install a doorbell without the mess of wires and drilling. This simple home wireless doorbell has 32 melodies to choose from and is completely wireless so all you need to do is secure the transmitter next to your door and place the receiver unit where it can be heard. It has an operating range of 50 metres in open air and is suitable for homes and office buildings.

- Easy to install at an affordable price
- 433MHz
- Requires 3 x AAA batteries



	Cat.	Qty 1+	Qty 4+	Qty 8+
Doorbell with 32 Melodies	LA-5018	\$19.95	\$17.95	\$15.95

Wireless Door Bell with Door / Window Sensor

A convenient way to add entry alerts to a home or a small business. Included is a wireless doorbell and a wireless window sensor. The doorbell button will trigger the doorbell to sound off one of 7 user selectable chime sounds. The window sensor, which is triggered by a reed switch, can be installed on a window (or door) and will trigger the chime when the window is closed or opened depending on how you choose to position the sensor. The doorbell can be left freestanding or mounted to a wall with the supplied mounting accessories. The doorbell button and window sensor can trigger different sounds so you know where entry has occurred. Overall, a totally wireless, hassle-free doorbell system.

- 7 unique doorbell sounds
- LED low battery indication



SPECIFICATIONS	LA-5055
Range	Up to 50m
Wireless speaker requires	3 x AA batteries (not included)
Doorbell button requires	1 x A23 battery (included)
Wireless window sensor requires	2 x AAA batteries (not included)
Doorbell dimensions	163(H) x 90(W) x 42(D)mm
Doorbell button dimensions	88(H) x 28(W) x 24(D)mm
Window/door sensor dimensions	87(H) x 39(W) x 25(D)mm

	Cat.	Qty 1+	Qty 4+	Qty 8+
Doorbell with Door/Window Sensor	LA-5055	\$59.95	\$53.95	\$47.95

INTERCOMS

2 Station Wired Intercom

Either station can signal the other even when the system is off. It can be used as a room/baby monitoring system.

- Adjustable volume
- Call facility even when unit is off
- Hands-free communication on sub-station
- Requires a 9V battery or 240V plugpack use MP-3146
- Supplied with 20m of connecting cable and staples



	Cat.	Qty 1+	Qty 4+	Qty 10+
Wired - Pair	AM-4310	\$29.95	\$26.90	\$23.70

SECURITY LIGHTING

Solar Rechargeable Sensor Spotlight

An all-in-one light, which turns on automatically at night when the built-in PIR detects movement. Set the light to illuminate for a short duration or continuously until manually turned off. During the day sunlight charges the solar panel on top of the light, so it's ready for use after the sun goes down. Easy to install, and feature an adjustable head to shine the light where you need it most.



SPECIFICATIONS	SL-3238
Lumens	250
Sensor	PIR
Motion detective distance	5m
Battery type	1200mAh 4.5V Ni-MH battery included
Dimensions	210(L) x 210(W) x 140(D)mm

	Cat.	Qty 1+	Qty 5+	Qty 10+
Solar Rechargeable Spotlight	SL-3238	\$44.95	\$40.45	\$35.95

Wireless Doorbell - 240VAC Plug

Simple plug and play in design. This compact sized doorbell receiver plugs into a power point and is not much bigger than a slim line power supply, so it fits on your powerboard or double wall socket without taking up too much space. Once plugged in, the battery powered wireless doorbell button can transmit up to 100 metres chiming out one of the 32 selectable melodies.

- 433MHz
- Suitable for rental properties, apartments and small offices



Plugs directly into a power point



	Cat.	Qty 1+	Qty 4+	Qty 8+
240VAC Plug-in Doorbell	LA-5029	\$24.95	\$22.35	\$19.70

High Sound Level Wireless Doorbell with Strobe for the Hearing Impaired

When this doorbell rings, the sound is accompanied by several bright flashes from the receiver's built in strobe light, which makes it much easier for a hearing impaired person to know that someone is at the door.

The sounder can be taken from room to room, or even used outdoors and will work up to 30 metres from the transmitter button. The melody can be set to one of seven different sounds and has two volume levels - medium and loud.

The unit is supplied with a neck lanyard and mounting hardware for the transmitter button.

- Requires 4 x C cells, available separately
- 210mm long



	Cat.	Qty 1+	Qty 4+	Qty 8+
Doorbell With Light Strobe	LA-5002	\$54.95	\$49.45	\$43.90

IN A HURRY? CLICK TO COLLECT!

Buy online, collect in-store!

To check if your local store offers "Click & Collect" visit: www.jaycar.com.au/store-finder



2 Station Wireless FM Intercom

Plugs into a 240V power point and will send to another room, upstairs etc. Both units need to be on the same channel and on the same mains phase to communicate. The intercom has a built-in monitor function so you can put one in a baby's room and listen from another location around the house. Additional units can be added to the system to provide a multi-point intercom system.

- Transmission through house wiring
- 2 Channels
- Power points used must be on same phase, ideally the same circuit



	Cat.	Qty 1+	Qty 4+	Qty 10+
Wireless - Pair	AI-5500	\$74.95	\$67.50	\$59.95

Emergency Sensor Spotlight with PIR

A simple method for adding a level of security in areas that may require costly or cumbersome cabling, or where no mains is available. When motion is detected, the light automatically turns on at a user selectable setting of 5 seconds, 20 seconds, or flashing for 20 seconds. An emergency lighting solution suitable for hallways, entry and exit points. The mains power supply charges the internal battery to ensure illumination is available during power outages. Also acts as a standard PIR spotlight to illuminate paths when motion is detected. Features the same selectable light settings and PIR.

- Solar Light with PIR
- Tough ABS housing



SPECIFICATIONS	SL-3232
LED	Cree® XML
Lumens	500
Power	5 x 1.2V AAA battery pack included
Detection range	6-7m
Dimensions	240(H) x 110(W) x 150(D)mm

	Cat.	Qty 1+
Emergency Light with PIR	SL-3232	\$24.95

RADIO FREQUENCY ID DEVICES (RFID)

Waterproof Digital Keypad with RFID Access Control

A single door multifunction standalone access controller or a Wiegand output keypad/card reader suitable for an area requiring stricter access control such as a laboratory, warehouse, bank, or prison. The unit is suitable for mounting indoor or outdoor in harsh environments. It's housed in a sturdy IP65 vandal proof zinc alloy electroplated case that can be mounted to a wall with minimal drilling. Up to 2,000 users are supported in either a card, a 4-8 digit PIN, or a card + PIN option and the inbuilt card reader supports EM, 125kHz frequency cards. Red/Yellow/Green LEDs will indicate working status of the device. Protective features include anti-magnetic MOS output, output current lock, and short circuit protection. Full installation instructions/wiring diagrams featured.

- Waterproof
- Backlit keypad
- Adjustable door output time, alarm time and door open time
- Built in light dependent resistor for anti-tampering
- Built in buzzer

SPECIFICATIONS	LA-5353
Voltage	12VDC
Card Type	EM 125kHz
Card Reading	Distance: 3-6cm
Adjustable Door Relay time	99 seconds
Adjustable Alarm Time	0-3 minutes
Wiegand Interface	Wiegand 26 bit
Wiring Connection	Electric Lock, Exit Button, DORL, External Alarm
Dimensions	128(H) x 82(W) x 28(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 8+
RFID Keypad	LA-5353	\$129.00	\$115.95	\$102.95

DOOR EXIT SWITCH

Non-Contact Infrared Door Exit Switch

This infrared sensor can replace the old push button switch on automatic exit doors so that they will open with just a wave of your hand. The sensor will trigger an internal relay when your open hand comes within 100mm of the panel. No actual contact is required so there can be no transfer of contagions from one person to the next. The sensor is mounted on a stainless steel plate and has indicator LEDs built in to signal that the switch has been activated.

- 12VDC supply voltage
- 3A @ 30VDC contact rating
- 30mm sensor diameter
- 70 x 115mm plate dimensions



	Cat.	Qty 1+	Qty 2+	Qty 4+
Door Exit Switch	LA-5187	\$69.95	\$62.95	\$55.95

DOOR STRIKES

Fail Secure Narrow Electric Door Strike

Upgrade your conventional door locks to keyless entry electronic access. This electric door strike is suitable for narrower doors. A fail secure door strike will keep a door locked shut in the event of a power failure. Conversely, fail safe door strikes keep doors unlocked in the event of a power failure. This electric door strike complements our range of RFID controls for card or fingerprint access, or can also be paired with one of our intercoms or video doorphones to create a convenient remote door access system.

- Suitable for wood, aluminium and hollow metal door jambs
- Plate size: 160(L) x 25(W) x 28(H)mm
- Power: 12VDC, 450mA



	Cat.	Qty 1+	Qty 4+	Qty 8+
Fail Secure Type	LA-5077	\$44.95	\$40.45	\$35.95

Standard Fail-Secure Door Strike

Designed for use with cylindrical lock-sets (commonly used on wooden and aluminium doors).

- Dimensions: 150(L) x 39.5 (W) x 28(H)mm
- Zinc alloy face plate
- 12VDC 450mA (on striking)



	Cat.	Qty 1+	Qty 4+	Qty 8+
Fail Secure Type	LA-5078	\$49.95	\$44.90	\$39.90

See website for technical drawing



RFID TAGS

- EM-4001 125kHz



ZZ-8950

Key Fob

Dimensions: 31(W) x 40(L) x 5(H)mm
Cat. ZZ-8950



ZZ-8952

Wafer Card

It is around the same size as a standard credit card.
Cat. ZZ-8952



ZZ-8953

Lanyard Type

Hangs on a lanyard or belt clip. Similar size to a credit card.
Cat. ZZ-8953

	Cat.	Qty 1+	Qty 4+	Qty 8+
Keyfob	ZZ-8950	\$5.95	\$5.35	\$4.75
Wafer Card	ZZ-8952	\$4.95	\$4.45	\$3.90
Lanyard Card	ZZ-8953	\$4.95	\$4.45	\$3.90

REMOTE CONTROLS

Single Channel Keyfob Remote

Multi-purpose remote control keyfob for garage doors, lights automatic gates etc. It operates in the 27MHz band on an FM signal. The built-in microcontroller uses the latest technology allowing for easy setup and installation while providing maximum security and reliability.

- Requires A554 battery
- Battery status LED
- Up to 200m range

For wireless remote controls see page 462



	Cat.	Qty 1+	Qty 4+	Qty 8+
Keyfob Remote	LR-8847	\$59.95	\$53.95	\$47.95

One Channel Hand Controller/Transmitter

For over 15 years now, one brand of remote control has dominated the Australian & New Zealand markets for remote controls for garage doors, motorised gates, lighting, alarms etc. This unit, called the FMT-301, is a 27MHz crystal controlled NBFM (Narrow band frequency modulated) device. It is coded with a 12-way DIP switch. There are over a million in service in Australasia. They are very reliable but they do wear out, drown, go walkabout or simply get lost. We stock the most popular single channel unit. This will save ordering one through the garage door people who charge a fortune for replacements. This is the latest version of the most common operating transmitter in use in Australia/New Zealand today. It operates (always has) on 27.145MHz & requires a 216-type 9V cell. An alkaline battery is recommended but is not included. The controller is custom coded via a DIP-switch which is accessible from the battery cover.

- Weight: 72g excluding battery
- Dimensions: 96(H) x 55(W) x 20(D)mm

Suits garage doors, motorised gates etc.



	Cat.	Qty 1+	Qty 4+	Qty 8+
Handheld Remote	LR-8827	\$74.95	\$67.45	\$59.95

IR/RF Signal Tester

This device detects and confirms radio frequency and /or infrared emission from key fobs and remote controls and even signal strength. It helps to diagnose faults quickly and easily without the need to dismantle the fob, remote or vehicle. Features a magnetic backing to stick to the side of any ferrous surface making distance test of transmitter a possibility. Suitable for a wide variety of vehicle and electronic/electrical applications.

- Long battery life, auto shutdown when not in use in 1 mins
- Super bright LED indicator
- Powered by 9.0V battery (not included)
- Detects: infra-red or Radio Frequency
- RF ranges: 418MHz, 433-434MHz, and 868MHz
- Dimensions: 118(L) x 65(W) x 25(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2230	\$29.95	\$26.95	\$23.95

DO A FRIEND A FAVOUR

If you have a technical friend or someone who may be just interested in some of the products we stock, simply mail or email his or her address to:

Catalogue Department
Jaycar Electronics: PO Box 7172
Silverwater, NSW 1811 or email
to catalogue@jaycar.com

DOOR & DRIVEWAY BEAMS

Indoor Commercial Grade Doorway Beam



A compact entry warning system is designed for use in shops, restaurants, doctors and dentist surgeries etc. to alert you to the entry of customers and visitors. The system consists of a send/receive unit which transmits an IR beam across the doorway onto a prismatic reflector mounted on the opposite side. The beam is reflected back to the receiver to complete the circuit. When a person walks through the beam, the circuit is interrupted and this causes the alarm to sound an audible warning. The warning buzzer can be mounted in any suitable location up to 10m away.

- Mains plugpack and mounting hardware included.
- Range 2 - 6 metres
- Power: 9VDC
- Adjustable alarm time and volume
- Transmitter/Receiver size 70(H) x 60(W) x 30(D)mm
- Reflector size: 65 x 53mm



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
Doorway Beam	LA-5193	\$79.95	\$71.95	\$63.95

Counter to suit Doorway Beam LA-5193

Attach to our LA-5193 Door Beam units to easily measure the door entry count in your shop, factory or office. The 20m lead carries both the signal and power, allowing you to mount the counter in a convenient location away from the door entry. This product is a must have for the serious retailer to easily measure the store traffic to sales conversions in their store.

- Counts up to 9999
- Includes '+', '-' and 'Reset' buttons
- Dimensions: 60(W) x 70(H) x 23(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
Counter	LA-5197	\$49.95	\$44.95	\$39.95

Door Extension Buzzer to suit LA-5193

This neat and compact buzzer can be mounted anywhere and is recommended as an addition to our Door Security Beam with Reflector (LA-5193) as an extension alarm. The volume of the buzzer is adjustable and the sound output can be selected by a slide switch to Alarm, Off or Chime. The sounding time can also be adjusted from 3 to 30 seconds.

- Supplied with mounting hardware, a 10m lead and an adjustment screwdriver



SPECIFICATIONS	LA-5188
Input voltage	9 - 15VDC
Consumption current	25mA Max
Ambient Temp	-20°C - 50°C (-4°F - 122°F)
Response time of buzzer	Chime: 1sec. Alarm: 30sec
Volume of Speaker	0 - Max (adjustable)
Alarm time	30 sec Max (adjustable)
Speaker output	Chime/Off/Alarm (selected by switch)

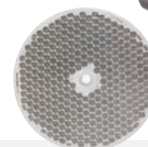


▲	Cat.	Qty 1+	Qty 4+	Qty 8+
Door Buzzer	LA-5188	\$34.95	\$31.45	\$27.90

Weatherproof Commercial Grade Infrared Beam

A heavy duty version of the common beam sensor used in doorway announcers, this commercial grade infrared beam is ideal for detecting when a person or object crosses a boundary or entrance way. Simply install the sensor module aligned with the reflector and the relay output will be triggered by any object which breaks the beam. The sensor module projects a modulated beam which resists interference from sunlight and can be used over a range up to 15m. Suitable for connection to existing lighting or security systems, and also compatible with the extension buzzer and counter add-on units for our standard doorway beam. The polycarbonate casing is weatherproof with an anti-fog sensor window making it suitable for use outdoors and in dusty or damp environments. LED indicators are included to assist with installation and provide a visual indication of the beam status.

- Adjustable vertical beam angle
- Narrow beam angle
- NC tamper switch output
- 12VDC plugpack required
- Terminal block and cable gland included



LA-5179

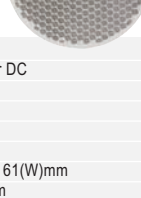
SPECIFICATIONS	LA-5179
Input voltage	12 to 250V AC or DC
Sensing range	0.25 to 15m
Enclosure rating	IP66
Relay output	NO / NC contact
Output contact rating	30VDC 1A
Sensor module dimensions	122(H) x 62(D) x 61(W)mm
Reflector dimensions	82(Dia) x 8(H)mm

Optional Accessories:

Please note these require hard-wiring to achieve compatibility, see website PDF.

- LA-5188 Door Beam Extension Buzzer*
- LA-5197 Door Beam Counter Module*

*Note: Accessories need to be hard wired



LA-5188



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
Infrared Beam	LA-5179	\$119.00	\$106.95	\$94.95
Extension Buzzer	LA-5188	\$34.95	\$31.45	\$27.90
Counter Module	LA-5197	\$49.95	\$44.95	\$39.95

Solar Powered Wireless IR Annunciator Kit

With a wireless transmission range of up to 100m, this annunciator kit is a perfect, reliable solution for monitoring traffic in and out of driveways to shops, large commercial and rural properties. Attach the wireless IR detector at the entrance and be alerted of customers or guests as they enter and leave your premise. Installation is easy, the detector runs on 4 x AAA rechargeable batteries and is topped by the solar panel charger included. The wireless receiver can be wall mounted, placed over the counter, desk or wall mounted with no messy wiring connections in between.



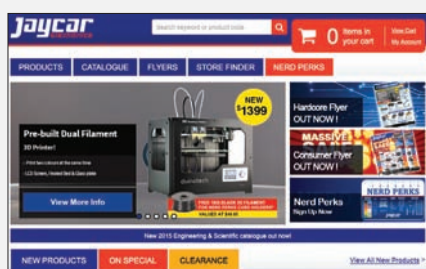
WIRELESS IR DETECTOR	LA-5176
Includes	4 x AAA rechargeable batteries
Transmission Range	Up to 100m
Transmission frequency	433.92MHz
IR detection range	2 - 6m
Dimensions	71(L) x 64(W) x 43(D) mm
ANNUNCIATOR	
Type	Microprocessor based control unit
Transmission frequency	433.92MHz
Requires	4 x 1.5V D size alkaline battery
Operating temperature	0°C - 40°C
Dimensions	143(L) x 110(W) x 50(D)mm
SOLAR PANEL (WITHOUT BRACKET)	
Dimensions	173(L) x 123(W) x 14(D)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Door or Driveway Annunciator	LA-5176	\$119.00	\$106.95	\$94.95

BUY IT ON THE WEB...

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WIRELESS ALARM SYSTEMS

8 Zone Wi-Fi Alarm Kit with App

This 8 Zone Wi-Fi and cloud controlled alarm system is very easy to install, and can be controlled easily via the touch screen, using a wireless key-fob or by your Smartphone over a wireless network. Once dialled, the recipient can then listen in and even broadcast their voice over the control unit to scare away the trespasser, simultaneously triggering the built-in siren. The wireless PIR and Reed switches are mounted using 3M double sided tape. An ideal security system if you are renting or where it is difficult to run wiring through the premises. A Wi-Fi network is required.

- App controlled (suits Android and iOS®)
- Cloud enabled home-security system with full control from Smartphone
- Smart touch panel and easy to use
- Push notifications, Email alerts
- Dimensions: 163(W) x 132(L) x 30(D)mm



View live footage on a Smartphone
Smartphone not included



RED SHIELD™



KIT INCLUDES:

- 1 x Smart touch panel with rechargeable battery
- 1 x Wall/desk mount bracket with mounting hardware
- 1 x PIR motion sensor with magnetised mounting bracket & batteries
- 2 x Slim door/window sensors with batteries
- 1 x Wireless key fob remote with battery
- 1 x Mains adaptor



Accessories to suit 8 Zone Wi-Fi Alarm Kit LA-5610

720P WI-FI IP CAMERA

This is a 720p high definition wireless IP Camera that suits LA-5610 8 Zone Wi-Fi Alarm Kit with App. The camera features pan and tilt rotation with IR night vision LED's. It also supports mobile phone remote viewing and motion detection so that when the alarm is triggered it will send an alert to your phone and simultaneously brings up the camera footage live so that you can see what's happening!

- Dimensions: 125(H) x 100(W) x 95(L)mm

Cat. LA-5620



LA-5620



SPARE WIRELESS PIR SENSOR

Will alert wireless home alarm when movement is detected. It is ideal for wide spaces such as rooms, hallways, stairwells, sheds, front and back doors. Features power-saving with 3 minutes motion lockout after each detection to preserve battery life. It has 120 degree wide angle detection and features low battery warning. It comes with a PIR motion sensor, all-directional magnetic mounting bracket, which can be mounted using the supplied 3M double-sided tape or included mounting screws.

- Power: Includes 1 x CR123A Lithium battery
- Dimensions: 65(L) x 49(W) x 36(D)mm

Cat. LA-5614



LA-5614

SPARE WIRELESS REED SWITCH

Will alert the wireless home alarm when a door or window is opened. Ideal to use on windows and doors of your garages, cabinets, sheds, attics, side doors and freezers. It has magnetic sensor that can be mounted on right or left side of door or window. Features low battery warning. It comes with a window sensor and a double-sided tape.

- Power: 2 x AAA batteries included
- Dimensions: 75(L) x 20(W) x 20(D)mm

Cat. LA-5616



LA-5616

SPARE WIRELESS KEY FOB REMOTE

Compact remote control for the Wi-Fi Alarm. This 5 buttons remote features 3 modes and a socket function to turn the home appliance ON and OFF. It has an excellent transmission range. CR2032 Lithium battery is included.

- Power: 1 x CR2032 Lithium battery included
- Dimensions: 55(L) x 37(W) x 9(D)mm

Cat. LA-5618



LA-5618

WIRELESS EXTERNAL SIREN STROBE

Add an external siren to alert your neighbours and scare would-be thieves.

- Siren: 120dB
- Battery: Requires 4 x D size
- Dimensions: 260(L) x 250(W) x 50(D)mm

Cat. LA-5619



LA-5619

GARAGE DOOR SENSOR TO SUIT LA-5610 WI-FI ALARM

Provides reed switch functionality with enough flexibility for easy mounting onto a garage door. Uses a single AAA battery, includes adhesive mounting strips.

Cat. LA-5613



SPECIFICATIONS

LA-5613

- Battery: 1 x AAA (Included)
- Weight: 32g
- Cable Length: 290mm
- Dimensions: Main Unit: 21(W) x 76(H) x 20(D)mm, Sensor: 11(W) x 50(H) x 12(D)mm

FLOOD SENSOR TO SUIT LA-5610 WI-FI ALARM

Triggered when water reaches the sensor, ideal for monitoring potential flood areas such as a laundry, basement, bathroom etc. Can also be used to alert when you're topping up your pool etc. Single AAA battery, adhesive mounting strips included.

Cat. LA-5615

SPECIFICATIONS

LA-5615

- Battery: 1 x AAA (Included)
- Weight: 22g
- Cable Length: 240mm
- Dimensions: Main Unit: 21(W) x 72(H) x 20(D)mm, Sensor: 25(W) x 15(H) x 10(D)mm



SHOCK SENSOR TO SUIT LA-5610 WI-FI ALARM

Triggered by glass breaking, a door being smashed, or any other shock force. Includes mounting adhesive and battery.

Cat. LA-5617



SPECIFICATIONS

LA-5617

- Battery: 1 x AAA (Included)
- Weight: 26g
- Cable Length: 280mm
- Dimensions: Main Unit: 21(W) x 76(H) x 20(D)mm, Sensor: 35(W) x 35(H) x 6(D)mm

TEMPERATURE SENSOR FOR LA-5610 WI-FI ALARM

Extremely versatile. Monitors temperature, with a huge array of applications. Great for the wine cellar, dog's kennel, baby's room, and more. Includes adhesive mounting strips & battery.

Cat. LA-5621

SPECIFICATIONS

LA-5621

- Battery: 2 x AAA (Included)
- Weight: 50g
- Cable Length: 120mm (Coiled)
- Dimensions: Main Unit: 28(D) x 67(Dia.)mm, Sensor: 6(D) x 29(Dia.)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
8 Zone Wi-Fi Alarm Kit	LA-5610	\$299.00	\$269.00	\$239.00

*Note: Not stocked in all stores but can be ordered

▲	Accessories to suit LA-5610 Wi-Fi Alarm	Cat.	Qty 1+	Qty 2+	Qty 4+
	Wi-Fi IP Camera to Suit NEW	LA-5620	\$149.00	\$133.95	\$118.95
	Spare PIR - Wireless	LA-5614	\$39.95	\$35.90	\$31.90
	Spare Reed Switch - Wireless	LA-5616	\$29.95	\$26.95	\$23.70
	Spare Keyfob	LA-5618	\$29.95	\$26.95	\$23.70
	Bell Box Siren	LA-5619	\$99.95	\$89.95	\$79.95
	Garage Door Sensor* NEW	LA-5613	\$69.95	\$62.95	\$55.95
	Flood Sensor* NEW	LA-5615	\$69.95	\$62.95	\$55.95
	Shock Sensor* NEW	LA-5617	\$69.95	\$62.95	\$55.95
	Temperature Sensor* NEW	LA-5621	\$79.95		

WIRELESS ALARM SYSTEMS (CONTINUED)

8 Zone Wireless Alarm Kit with Remote Control

This wire-free alarm system is a high quality home alarm with user-friendly features that allow you to know your home or office is secure at all times. The system is controlled by a Smart Panel which gathers information from wireless sensors placed in various locations throughout your home. If the Smart Panel detects a security breach, the system's indicator lights and audible alarms are triggered.

- Special features include 8 security zones and 4 operation modes - Alarm/Alert/Home/Standby
- Quick and easy installation, eliminating the mess and expense of running wires
- Can be controlled from Smart Panel or Keyfob remote control (included)
- Back up battery and low battery notification
- 120dB+ internal siren
- Requires 2 x 9V and 2 x AAA alkaline batteries
- Dimensions: 150(L) x 100(H) x 30(D)mm

KIT INCLUDES:

- 1 x Smart Panel with tri-colour LCD display
- 1 x Motion sensor with mounting bracket
- 1 x Door/Window Sensor
- 1 x Keyfob remote control with battery
- 1 x Mains power adaptor
- Mounting hardware



RED SHIELD™



DIY



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
8 Zone Wireless Alarm	LA-5280	\$129.00	\$115.95	\$102.95
Accessories to suit	Cat.	Qty 1+	Qty 2+	Qty 4+
Additional Wireless Reed Switch	LA-5147	\$32.95	\$29.45	\$26.45
Additional Wireless Keyfob Remote	LA-5149	\$29.95	\$26.95	\$23.95
Wireless Indoor 120dB Siren	LA-5142	\$39.95	\$35.90	\$31.90
Wireless PIR Sensor	LA-5146	\$39.95	\$35.90	\$31.90
Red Wireless Bellbox / Siren	LA-5159	\$99.95	\$89.95	\$79.95

8 Zone Wireless Alarm Kit with Telephone Dialler

This stylish alarm panel with backlit LCD mounts to the wall and can be controlled via its keypad, supplied with a key-fob remote or control it from your Smartphone using the freely available 'Smart Halo' App. The included PIR motion sensor and two door/window sensors are battery powered and transmit wirelessly to the panel from up to 100m away (open area). Once the system detects a security breach, indicator lights will flash and the built-in 120dB siren will become active.

If you connect the panel to a telephone socket (2m cable included) the panel can automatically dial up to 8 phone numbers and play a pre-recorded message that you record yourself. After the message plays the recipient can disable the alarm, or communicate with the intruder or person in distress in the house using the microphone and speaker built into the panel.

Other features include 4 operating modes (Standby, Armed, Alert and Home) and battery backup.

Easily expand the system with additional sensors and accessories available separately.

- Quick and easy set-up with your Smartphone app
- Intuitive DIY system
- Wireless design
- Built-in phone dialler
- Automatic emergency calls up to 8 pre-set telephone lines
- Sensitive microphone for callers from 30ft away

KIT INCLUDES:

- 1 x Smart panel with LCD and keypad
- 2 x door/window sensors with mounting hardware
- 1 x motion sensor with mounting hardware
- 1 x key fob remote control with battery

View live footage on a Smartphone

Smartphone not included



MOTION SENSOR

- Battery included: 1 x CR123A
- PIR detection angle: 100°
- PIR detection range: 13m, 8m, 5m
- Power saving mode: Yes
- Dimensions: 65(H) x 60(D) x 52(W)mm

Cat. LA-5146

DOOR/WINDOW SENSOR

Mount using supplied double-sided tape or mounting screws

- Battery included: 2 x AAA alkaline
- Dimensions: 85(H) x 42(W) x 14(D)mm

Cat. LA-5147

KEY FOB REMOTE CONTROL

Includes Panic button

- Battery included: 1 x 12V alkaline
- Dimensions: 60mm long

Cat. LA-5149

SPECIFICATIONS	LA-5290
Power source	Mains adaptor with 1.8m cable included
Backup power	Requires 1 x 9V battery
Sensor numbers	Unlimited
Operating frequency	433.92MHz +/-0.5MHz
Siren output	120dB (Duration-adjustable)
Sensor range	Up to 100m (open area)
Panel dimensions	190(L) x 115(H) x 35(D)mm









▲	Cat.	Qty 1+	Qty 2+	Qty 4+
8 Zone Wireless Alarm Kit with Dialler	LA-5290	\$169.00	\$151.95	\$134.95
Accessories to suit	Cat.	Qty 1+	Qty 2+	Qty 4+
Additional Wireless Reed Switch	LA-5147	\$32.95	\$29.45	\$26.45
Additional Wireless Keyfob Remote	LA-5149	\$29.95	\$26.95	\$23.95
Wireless Indoor 120dB Siren	LA-5142	\$39.95	\$35.90	\$31.90
Wireless PIR Sensor	LA-5146	\$39.95	\$35.90	\$31.90
Red Wireless Bellbox / Siren	LA-5159	\$99.95	\$89.95	\$79.95

Not available in New Zealand



ALARM SYSTEMS

COMPARISON GUIDE

		Connection	Frequency	Zones	App Controlled	Self Install	Page
LA-5610		Wi-Fi	2.4GHz	8	•	 DIY	432
LA-5280		Wireless	433MHz	8		 DIY	433
LA-5290		Wireless	433MHz	8	•	 DIY	433
LA-5475		Wired		4		 DIY	434

WIRED ALARM SYSTEMS

4 Sector Alarm System with 2 Wire Technology

At last a user friendly 4 sector alarm system that is easy to set-up and provides exceptional levels of security. The system utilises two-wire technology to ensure simple set-up that the DIY enthusiasts will love. The control unit has a built-in keypad with status LEDs and a three modes of operation (Home, Out, Off). All sensors and sounders are line-protected so any attempt to interfere will sound the alarm. Set up multiple sectors which can be monitored or enabled independently (eg. upstairs/ downstairs or house & garage etc.)

- All system components (sensors, sirens) are connected to the control unit via a two-core non-polarised wire
- Low battery and tamper attempts will be indicated by the status LEDs
- Push button "Home", "Out", and "Off" mode operation or "Home" and "Out" modes are pre-programmed for user convenience
- Door chime function is available when system is not armed
- Short circuit tamper attacks to any sector sensor will trigger the alarm
- Individual sectors can be set to "Home-Bypass" or "Bypass"; for example, the upstairs detectors can be set to "Home-Bypass" at night
- Two PIR motion detectors can be connected to each PIR sensor circuit
- Can be expanded to have four PIRs as well as many magnetic contacts

KIT INCLUDES

- Control Unit
- 4 x Reed Switches
- 50m two-core flat cable
- Mount Hardware
- 2 x PIRs
- External Siren
- 240V adaptor

PIR	LA-5476
Type	Dual Pyroelectric element with hemispherical lens and new two-wire technology
Housing	ABS
Adjustments	Pulse count (1, 2 or 4)
Test LED	Selectable (on/off)
Mounting Height	2 - 2.5m
Detection Range	Up to 15m
Dimensions	105(H) x 65(W) x 45(D)mm

2 WIRE PIR TO SUIT LA-5475

This 2 wire PIR is a dual-element passive infrared intrusion detector for use in electronic security systems. It is compact, attractive and easy to install. It can be mounted indoors in a corner and is ideal for commercial, office and residential installation. The unit detection is via monitoring changes in infrared energy patterns.

Cat. LA-5476



DOOR/WINDOW CONTACT DETECTOR

Type	Magnetically - actuated switch
Housing	ABS
Dimensions	67(H) x 13(W) x 12(D)mm

EXTERNAL SIREN UNIT

Type	Piezo electronic external siren
Housing	ABS
Siren Output	110dB min. at 1m
Dimensions	180(H) x 113(W) x 47(D)mm

CONTROL UNIT	LA-5475
Type	Microprocessor based control unit with new two-wire technology
Housing	ABS
Sectors	4 Alarm Sectors (Expandable by connecting 2 PIRs to each of sectors 3 & 4)
Entry/Exit Delay	15, 30, 45 seconds programmable
Siren Duration	1, 3, 10 minutes programmable
Siren/Strobe Outputs	12V
Dimensions	160(H) x 185(W) x 35(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
4 Zone Alarm System	LA-5475	\$159.00	\$142.95	\$126.95
2 Wire PIR	LA-5476	\$29.95	\$26.90	\$23.70
PIR Lens - Lens Curtain	LA-5473	\$6.95	\$6.25	\$5.50

THINGS YOU MAY ALSO NEED...

Large Alarm Sticker

For trucks, caravans, houses, offices and factories. Where a larger and more prominent deterrent sticker is required. Sticks to outside of window.

See page 418 for Video Surveillance deterrent stickers



16VAC 1.25 Amp Alarm Supply

Designed for use with many house alarm panels. Supplied with three metres of cable for connection to alarm.

- Terminated with bare ends
- Dimensions: 55(W) x 90(H) x 60(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 8+		Cat.	Qty 1+	Qty 5+	Qty 10+
▲ 120 x 80mm	LA-5102	\$2.95	\$2.60	\$2.30	▲ Voltage(AC)	MP-3021	\$26.95	\$23.95	\$21.45
					16				
					Current(A)				
					1.25				
					Approval				
					N13057				

ALARM ACCESSORIES

Dual & Quad Element PIR Detectors

Reliable and effective dual and quad element PIR detectors for home or office security applications. Both units are compact, attractive and easy to install with the features to match. Each has a built-in automatic temperature compensation to help eliminate false triggers in certain environments. 110 degree convex honey comb hemispherical infrared lenses are used and each unit has an extremely low current draw at 8mA. Both feature a swivel bracket for quick position adjustment. This quad unit offers higher levels of detection than the dual element model.

- Detection type: Dual element low noise pyroelectric sensor
- LED indicator: Walk test enabled by internal link
- Tamper switch

SPECIFICATIONS	LA-5044
Operating voltage	9-15VDC
Current draw	8mA nominal at 12VDC
Range	12m max
Field of view	110 degrees max
Mounting height	1.5m-2.4m
Alarm output	NC, when cover on, 28VDC 0.1A
Warm up period	90 seconds
Pulse count	1, 2 and 4 pulses selectable
Dimensions	104(H) x 66(W) x 47(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 8+
Dual	LA-5044	\$34.95	\$31.45	\$27.90
Quad	LA-5046	\$39.95	\$35.95	\$31.95

FIND OUT MORE IN STORE

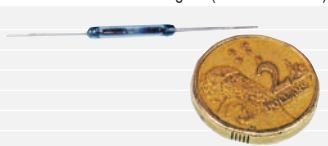
Our staff offer friendly and helpful service.
We're here to help.

REED SWITCH MAGNET ASSEMBLIES

NC Reed Switch*

Ideal for burglar alarms. *Normally open, but closed when near magnet (see note below).

SPECIFICATIONS	SM-1002
Total length	44mm
Glass length	16mm
Contact rating	10W
Switching voltage	200VDC (max)
Switching current	0.5A (max)
Carrying current	1.0A (max)



	Cat.	Qty 1+	Qty 10+	Qty 25+
Reed Switch	SM-1002	\$1.95	\$1.75	\$1.55

NC Reed Switch & Magnet

These are used to secure an alarm circuit on a door or window. Sold as a pair, one has a magnet inside, the other a reed switch. They have powerful magnets, with self adhesive or screw mount. Screw terminating. Size same as LA-5070. Contacts open when magnets are apart and closed when together.



NORMALLY CLOSED

TECH TALK

Normally CLOSED (NC) per pair. Burglar Alarm Industry Standard

	Cat.	Qty 1+	Qty 4+	Qty 8+
Reed Switch	LA-5072	\$4.95	\$4.45	\$3.90

NO & NC Reed Switch & Magnet

You have both types of contacts on the one unit.

Normally Open (NO) and

Normally Closed (NC) per pair.

Temperature: -40°C to 80°C

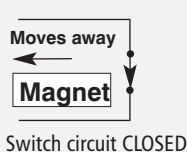
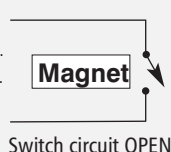


	Cat.	Qty 1+	Qty 4+	Qty 8+
Reed Switch	LA-5070	\$5.95	\$5.25	\$4.75

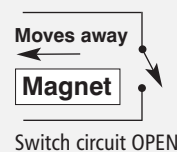
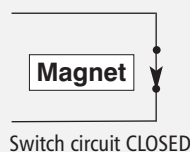
NORMALLY OPEN & CLOSED CIRCUITS

This is when the switch contacts are touching in the presence of a switching magnet. The contacts OPEN when the magnet is removed. This is the most common system in alarm circuits.

NORMALLY OPEN CIRCUIT



NORMALLY CLOSED CIRCUIT



Intelligent Shock Sensor

This vibration/shock sensor has an intelligent microprocessor. The sensitivity is automatically set in Learn Mode by the level of a recognised impact made to the protected area. The number of impacts i.e. pulse count required to generate an alarm is determined by the number of the recognised impacts made in Learn Mode. Fast and easy to install and can be mounted to wood, steel, glass, and concrete.

SPECIFICATIONS	LA-5073
Supply Voltage	9V - 16V DC
Current	Normal Mode: 16.5mA / Alarm: 15.8mA
Pulse Count	1 - 8 Programmed in Learn Mode
Latching Modes	Any, First to Alarm, Sequential
Sensitivity Settings	Automatic from Learn Mode Impact
Indicator	Two colour LED
Dimensions	27(L) x 22(W) x 87(H)mm



	Cat.	Qty 1+
12V Intelligent Pulse	LA-5073	\$9.95

Alarm Relay Module 2 x 15A

When it comes to large alarm installations, there is often a requirement to have several sirens and strobe lights. In order to do this safely, the best way is to use an isolated relay module. This enables you to supply an external power source so as not to overload the power supply on the alarm panel and switch high currents to multiple sirens and strobe lights.

- 15A Switching current
- NO and NC contacts
- Isolated to protect the alarm panel
- Relay coil protection for spike free operation



	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5558	\$24.95	\$22.45	\$19.95

Flush Mount Reed Switch & Magnet Sets

Just drill a recess in your door or window and the magnet flush mounts to be "invisible". The reed switch segment is similarly mounted into the door frame or window frame & wired into your system. Available in two versions to suit timber or metal frames with both versions normally closed contact.

Normally CLOSED (NC) per pair.

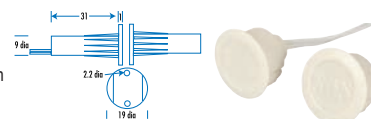
TAPERED VERSION TO SUIT TIMBER FRAMES

- Dimensions: 31(L) x 9(Dia)mm
- Surface Diameter: 19mm



TOOTHED VERSION TO SUIT METAL FRAMES

- Dimensions: 19(L) x 19(Dia)mm
- Surface Diameter: 24mm



	Cat.	Qty 1+	Qty 4+	Qty 8+
For Timber Frame	LA-5075	\$4.95	\$4.45	\$3.90
For Metal Frame	LA-5076	\$5.95	\$5.25	\$4.75

NC Miniature Reed Switch & Magnet

Absolutely tiny, these encapsulated reed/magnet switches with leads are ideal for home and car security. Their size should make them extremely easy to conceal so that potential thieves are less likely to disable them. Made from moulded plastic.

- White in colour.
- Supplied with 300mm lead
- Dimensions: 33(L) x 8(W) x 8.5(D)mm
- Width including mounting tab: 15mm
- Hole spacing: 18mm
- Wire lead length: 300mm



Normally CLOSED (NC) per pair.

	Cat.	Qty 1+	Qty 4+	Qty 8+
Mini Reed Switch	LA-5074	\$6.95	\$6.25	\$5.50

TECH TALK

ALARM STROBES

Blue 12V Siren/Strobe

A combined siren and LED strobe for alarm systems. It has 120dB output with low power consumption.

- Output: 120dB
- Operating voltage: 12VDC
- Dimensions: 120(L) x 72(W) x 42(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5306	\$16.95	\$15.25	\$13.55

AIRCRAFT OWNERS/OPERATORS

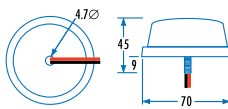
TECH TALK

If you operate mobile equipment on the aircraft side of an airport you must fit an amber flashing light on such equipment. Save yourself a fine & wire an amber unit to your vehicle. All units are 12V powered. Simply wire across ignition circuit so that strobe automatically comes on when vehicle is started.

Mini Size - LED

LED strobes for security, alarm or emergency use. Low current consumption units are fully sealed and waterproof; suitable for outdoor alarm applications. Mounts with 2 x 5mm bolts.

- 12VDC operation.
- Dimensions: 70(Dia) x 45(H)mm



▲	Colour	Cat.	Qty 1+	Qty 4+	Qty 8+
	Blue	LA-5326	\$19.95	\$17.70	\$15.70
	Red	LA-5327	\$19.95	\$17.70	\$15.70
	Amber	LA-5328	\$19.95	\$17.70	\$15.70

ALARM SIRENS

Small 'Tweetie Pie' Siren

This incredible little piezo screamer emits a 116dB wail. It sounds like a very loud canary. The sound at close range is almost unbearable! Ideal for any compact high noise alarm application

- Current 200mA max
- Measures 57(L) x 33(H) mm - less bracket
- Operating voltage: 12VDC



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5255	\$19.95	\$17.95	\$15.95

Large 'Tweetie Pie' Siren

This piezo screamer is the original Tweetie Pie's big brother. It is ideal if space is not too much of a problem, but it's still far smaller than all our other sirens. This screamer is louder than the smaller Tweetie Pie, it's 119dB and draws only 250mA.

- Colour is black
- Measures 90(L) x 62(W) x 70(H)mm incl mounting bracket
- Operating voltage: 12VDC



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5254	\$24.95	\$22.35	\$19.70

Piezo Siren

Black in colour, supplied with mounting bracket and connecting cable.

- Height 100mm (from mounting bracket to top)
- Length 80mm, 80mm diameter.
- Operating voltage: 12VDC
- Resonant Freq: 3kHz
- Sound Output: 120dB
- Current Drain: 300mA.



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5258	\$24.95	\$22.35	\$19.70

Indoor Piezo Siren

This unit is very popular for indoor use with house alarms. It is dustproof & waterproof.

- Voltage range: 7.5 to 15V
- Current (approx): 200mA @12V
- Output: 100-105dB @ 1m
- Dimensions: 85(Base) x 42(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5256	\$9.95	\$8.75	\$7.75

Plastic Siren Cover

RUSTPROOF & UV STABILISED - Remains attractive in any environment. Accepts 5" siren, has 3 holes drilled for strobe & tamper switch bracket.

- 5 year warranty for UV protection
- 175 x 155mm at back / 125 x 125mm at front
- Depth 145mm
- White in colour
- Includes tamper switch



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5112	\$24.95	\$22.35	\$19.70

5" Horn Speaker

Fully weatherproof. Unique voice coil construction ensures high dependability on full drive.

- Suitable for PA, intercom, security systems, etc.
- 10 watt - 8 ohm.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3180	\$16.95	\$14.95	\$13.35

5" x 8" Horn Speaker

This attractive unit in high impact white plastic features stainless steel hinge bolts. The special bracket enables maximum flexibility in mounting. Ideal for any outdoor application including marine.

- Rated at 30 watts power handling
- 8 ohm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AS-3190	\$39.95	\$35.90	\$31.90

Piezo 4 Tone Siren with Controller

A very loud 125dB siren, it has four different tones - police, ambulance, fire engine or truck alarm horn. Connects to a 12VDC power source and select a tone with the controller. Sturdy moulded plastic construction with metal mounting bracket.

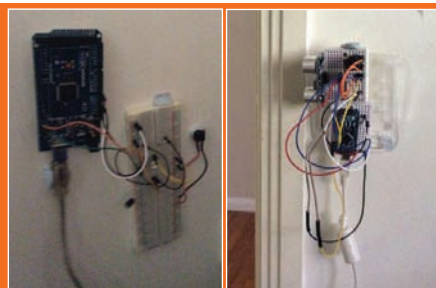
- 125dB
- 12VDC
- Dimensions: 150(L) x 130(Dia)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5259	\$29.95	\$26.90	\$23.70

SHOW US YOUR BUILD COMPETITION

Tony, who shops at our Jaycar Labrador store built:



This is my son's security system he built for his room. He used Arduino components all from Jaycar. He built two different alarm systems, one that was triggered by a laser and using an ultrasonic sensor. He bought all of his components from Jaycar.

STAND-ALONE ALARMS

Motion Activated Alarm with Remote Control

Avoid messy wiring and protect your belongings with ease using our battery operated, motion activated alarm. The PIR sensor provides 120° coverage, triggering a 120dB+ alarm when breached. Use the remote control to arm or disarm the alarm. Flick the switch to chime and be notified as people enter or leave your room. It is a simple but effective deterrent against intruders.

- Remote control to arm or disarm the alarm unit
- A delay feature to give you time to leave the room
- 120dB+ alarm
- 120° coverage
- Easy to install mounting bracket
- The alarm unit requires 3 x AA batteries
- The remote control includes 1 x CR2032 battery
- PIR Sensor Dimension: approx. 114(L) x 61(W) x 29(D)mm
- Remote Dimension: approx. 64(L) x 32(W) x 7(D)mm



RED SHIELD™



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Motion Activated Alarm	LA-5217	\$34.95	\$31.45	\$27.90

Window & Door Sensor Alarm

This is a fully self-contained audible alarm for use on doors and windows. Installed in seconds using the provided self-adhesive strips, one part on the door or window, and one part on the door frame or wall adjacent. It can be set to chime for entry alert, or as a siren for security. Also available in a pack of two, LA-5209.

- Batteries: 4 x LR44 batteries included
- Dimensions: Sensor: 33(W) x 62(H) x 15(D)mm, Contact: 10(W) x 62(H) x 15(D)mm



RED SHIELD™



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Each	LA-5207	\$14.95	\$13.45	\$11.95
Twin Pack	LA-5209	\$19.95	\$17.95	\$15.95

PANIC ALARMS

Personal Dual Alarm with LED Torch - 130dB

Deter thieves and attackers with its loud dual 130dB sirens and powerful independent torch function which will strobe when the alarm is activated. Simply pull the rip-cord to pull out the pin. Replace the pin to deactivate the alarm. Also includes a LED light. Fantastic for travellers.

- Traditional ripcord or key chain activation
- Includes 4 x LR44 batteries
- Dimensions: 105(L) x 28(W) x 15(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
Personal Alarm	LA-5181	\$14.95	\$13.35	\$11.70

Dual Band Jogger's Personal Alarm - 120dB

This personal alarm is perfect for walking, running, cycling and other various night time exercises. It features an interchangeable wrist or arm band which is weatherproof, washable and extremely lightweight.



Simply pull the ring pin for a powerful 120dB siren to warn off thieves and attackers.

SPECIFICATIONS	LA-5219
Siren	120dB
Battery	1 x 12V A23 (Included)
Dimensions	73(H) x 39(W) x 17(D)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5219	\$24.95	\$22.45	\$19.95

Ceiling Mount Alarm with Remote Control

A dual purpose unit that can be used as a simple entry chime, or as a self contained alarm system. Installation takes just minutes and being battery operated, blackouts won't be a problem. It detects movement via a passive infra-red sensor and the ear piercing 110dB siren means that everyone will know if there is an intruder. A remote control is included so you won't have to climb a ladder to turn it on and off!



SPECIFICATIONS	LA-5215
Power	3 x AA batteries
Typical battery life	6 months
PIR Range	>3m
Siren Duration	30 seconds
Entry Delay	30 seconds
Remote Range	>6m

RED SHIELD™



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Movement Activated	LA-5215	\$39.95	\$35.90	\$31.90

Pressure Activated Mat Alarm with Siren & Strobe

Easy to install and maintain, simply slide the pressure sensitive pad under your door mat to be notified of guests when they arrive at your front door or to surprise and deter would-be intruders. The alarm unit is battery operated and supplied with a mounting bracket. Flick the switch to chime when you are at home, flick it to alarm when you are away.

- Super loud 120dB+ siren
- Red strobe light
- Toggle switch, off/chime/alarm
- Requires 1 x 9V Alkaline Battery (not included)
- Lead length: 4m
- Mat dimensions: approx. 488(L) x 331(W)mm
- Buzzer dimensions (without bracket): approx. 97(L) x 54(W) x 33(D)mm



RED SHIELD™



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Pressure Alarm	LA-5218	\$34.95	\$31.45	\$27.90

Wall Mount Panic Alarm - 120dB

A multipurpose wall mounted panic alarm with pull cord activation. Can be used as a distress call for the elderly or a small scale evacuation alert in the home or office. Features a LED alarm/low battery indicator and a piercing 120dB siren which will ensure that it is heard by all.

Includes mounting bracket and hardware.



SPECIFICATIONS	LA-5219
Siren	120dB
Battery	2 x AAA (Included)
Dimensions	100(H) x 89(W) x (Unit), 45(L)mm (Cord)

▲	Cat.	Qty 1+	Qty 4+	Qty 8+
	LA-5177	\$19.95	\$17.95	\$15.70

GIFT CARD

Can't find what to buy?
Give a Jaycar Gift card and let them choose!



GPS TRACKING DEVICES

3G GPS/GSM Vehicle Tracker

This 3G GSM and GPS Tracking solution will locate and track the whereabouts of your vehicle in real time via the Internet on a computer or Smartphone. The device is easy to install with only 2 - 4 wires to connect. Insert a 3G GSM Sim card (not included) and hide the device away while connecting the external antenna to your windscreen. It works by sending the vehicle's GPS coordinates via the GSM network to the free online tracking service, which shows the location on Google Maps. It can also SMS longitude and latitude coordinates to up to 3 mobile phones, as well as alerts when vehicle exits a pre-determined area or exceeds pre-set speed.

Other features include an engine kill function to remotely disable the petrol pump, and movement sensor to extend battery life. An SOS/Panic button is also supplied which can send an SMS to the pre-programmed mobile phones. The built-in rechargeable Li-Po battery will keep the device functioning for up to 4 days when power is disconnected, which could help you locate the vehicle should it have been stolen and abandoned. There is no installation or on-going tracking charges. You only pay for the GSM sim card and service. Supplied with an external antenna, wiring loom, SOS button and microphone.

Please Note: This tracker is compatible with 4G SIM cards, however it only operates on a 3G band.

- Real time & history online tracking website
- Free Smartphone App available on iTunes® & Google Play
- SMS location & tracking return
- Remote engine immobilisation
- Geo fence alarm
- External microphone
- Over speed alarm
- Shock & movement alarm
- External SOS/Panic button
- Rechargeable battery

Tracking Website: www.responsegps.com

SPECIFICATIONS	LA-9026
GPS/GSM Module	3G Quad Band
GSM Frequency	850/900/1800/1900MHz
GPS/GSM Antenna	Internal Windscreen
Location Accuracy	5-10m
Upload Interval	30-999 Seconds
3G Data Usage	0.07KB (Each Upload Interval)
GPS Start Time	1 Second (Hot Start), 36 Seconds (Cold Start)
Operating Voltage	9-30VDC
Tracking Current	5V @ 150mA
Standby Current	5V @ 3mA
Recharging Current	5V @ 400mA
Battery	500mAh Li-ion
Dimensions	90(L) x 53(W) x 20(D)mm



View live footage on a Smartphone
Smartphone not included



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Vehicle Tracker	LA-9026	\$299.00	\$269.00	\$239.00

3G GPS/GSM Personal Tracker

Locate and track the whereabouts of a person, personal belonging or vehicle in real time via your mobile phone. The tracker is rechargeable and compact so it can fit unobtrusively inside a pocket, handbag, luggage, vehicle, etc. To operate, simply insert a GSM Sim card (not included), charge and turn on. It then sends it's GPS coordinates via the GSM network to your mobile phone which can be viewed on Google Maps.

Latitude, longitude, speed, direction, date & time, and battery condition or a GoogleMaps website link can be sent at any time by sending an SMS from your mobile phone to the tracker. You can also set it to SMS details once movement is detected, when the tracker is in a pre-determined area, over a preset speed, or when the battery is getting low.

A microphone and speaker in the tracker also allows you to dial in to listen to sounds around the tracker, and one of two phones can be called from the tracker for two way communication. To top off the rich list of features is a SOS button that sends help information to up to three pre-set phone numbers. A USB cable and mains power adaptor is supplied to recharge the built-in rechargeable Li-ion battery, which will keep the tracker functioning for up to 3 days on standby.

- Real time & history online tracking website
- Free Smartphone App available on iTunes® & Google Play
- SMS location & tracking return
- Geo fence alarm
- External microphone
- Shock & movement alarm
- External SOS/Panic button
- Rechargeable battery

Tracking Website: www.responsegps.com

SPECIFICATIONS	LA-9028
GPS/GSM Module	3G Quad Band
GSM Frequency	850/900/1800/1900MHz
GPS/GSM Antenna	In-built
Location Accuracy	10-20m
Upload Interval	30-999 Seconds
3G Data Usage	0.07KB (Each Upload Interval)
Tracking Current	5V @ 50mA
Standby Current	5V @ 3mA
Recharging Current	5V @ 300mA
Battery	1000mAh Li-ion
Dimensions	61(L) x 42(W) x 11(D)mm



View live footage on a Smartphone
Smartphone not included



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Personal Alarm	LA-9028	\$299.00	\$269.00	\$239.00

WIRELESS TRACKER

Keyring Locator with App & Bluetooth® Technology for iPhone®

An electronic leash that will sound an alarm when your iPhone® leaves your vicinity. You can also use your iPhone® to find the lost keyring thanks to the duplex communication protocol. A handy app is available which will show on Google Maps® the last time the keyring and phone were connected.

- The app can control the alarm threshold distance, set the keyring to start beeping when a call is incoming, and switch the proximity alarm on/off.
- A brilliant little device that could save you a lot of trouble.

SPECIFICATIONS	XC-0365
Bluetooth® protocol	4.0
Search range	20m
Batteries	Includes 1 x CR2032 button cell
Battery life	3-6 months
Dimensions	60(L) x 35(W) x 10(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 8+
Keyring Locator	XC-0365	\$29.95	\$26.95	\$23.70

SHOW US YOUR BUILD COMPETITION
Tim, who shops at our Jaycar Tuggerah store built:



"This is my quadcopter built using many Jaycar parts. The frame is electrical conduit, and it uses an Arducopter flight controller. It has a Arduino Leostick that controls the action camera, the sonar and the navigation lights. It was a lot of fun to build and flies very well."

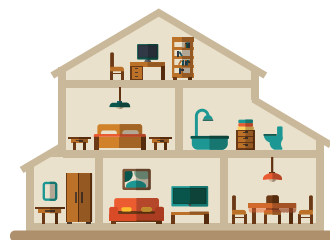
HOME AUTOMATION - ECONOMY RANGE

You do not have to spend tens of thousands of dollars to create a smart home. With our low cost Wireless Home Automation & Alarm systems, you can create a fully automated system and only spend a few hundred dollars.

Simplicity and ease of use was in mind during the design; all sensors, controllers and switch modules are all wireless operating reliably on 433MHz frequency at a max range of 100m (line of sight). The main controller uses a very simple rotary switch for sensor and controller programming; very similar to what you see in expensive European systems, making system programming a breeze.

Although very affordable, the system incorporates very powerful features:

- 16 sector wireless alarm system
- 16 sector wireless home automation devices
- Timer schedule programming
- Group programming
- Matrix (Scenes) programming
- 100 Alarm event memory



Home Automation Main Controller

A powerful controller with built-in 16 wireless alarm zones and 16 wireless home automation control. Easily interfaces with a wide range of wireless security devices such as a PIR motion detectors, magnetic reed switches, light sensors and remote key fobs to protect your home and property. It also controls home automation devices such as mains 240V switcher module, 12V switcher module, light dimmer controller module, infrared controller and a wireless external bell box. With the built in timer schedule programming, you are able to turn device(s) on or off automatically. E.g. Turn your lights on with the LA-5594 240V mains controller; turn your television or air conditioner with the LA-5597 Infrared controller at a specific time of the day or night.

Group programming is a handy feature for day to day activities. This allows you to turn up to a 5 output devices at once. Imagine coming home from work and opening your garage with the LA-5155 key fob remote control and the lights to your garage and living room, the television and air conditioner all turn at the same time. All you have to do is sit in your favourite couch and enjoy that ice cold beverage.

The Matrix or Scenes programming is a very powerful feature. It enables you to program wireless sensors to turn home automation device controllers on or off. Program the LA-5157 infrared sensor to turn a light on when activated. Set your LA-5598 light sensor module to open your curtains in the morning. The possibilities are endless and are limited to your imagination.

Main controller comes with a mains power adaptor with a provision for a 9V battery (not included) back for memory.



See below & next page for accessories to suit

SPECIFICATIONS	LA-5592
Voltage input	12VDC
Wireless Range	100m line of sight
Wireless Frequency	433MHz



	Cat.	Qty 1+	Qty 2+	Qty 4+
Main Controller	LA-5592	\$119.00	\$106.95	\$94.95
Key FOB Remote	LA-5155	\$19.95	\$17.95	\$15.95
PIR to suit	LA-5157	\$39.95	\$35.95	\$31.95

Entry Level Home Automation Package

We've put together an affordable home automation system package to help take out the guess work, and saves you money at the same time. The Home Automation Main Controller has 16 built-in wireless alarm zones and 16 wireless home automation controls. It easily interfaces with a wide range of wireless security devices such as a PIR motion detector, magnetic reed switch, light sensor and remote key fob to protect your home and property. Group programming is a handy feature for day to day activities. This allows you to turn up to a 5 output devices at once. The Matrix or Scenes programming enables you to program wireless sensors to turn home automation device controllers on or off. Main controller comes with a mains power adaptor (LA-5594). The wireless PIR (LA-5157) expands the capabilities of your Wireless Alarm System. Reed switches (LA-5158) are appropriate for monitoring doors, windows or other dry contact devices.

The package also includes 2 x AAA batteries for PIRs and 2 x AAA for the reed switch and a 9V battery (SB-2423) for the main controller's backup function.

PACKAGE INCLUDES:

1 x Wireless Main Controller	LA-5592
1 x 240VAC Mains Controller	LA-5594
1 x Key Fob	LA-5155
1 x Wireless PIR	LA-5157
1 x Wireless Reed Switch	LA-5158
4 x AAA Batteries	SB-2413
1 x 9V Battery	SB-2423



See below & next page for accessories to suit



	Cat.	Qty 1+
Home Automation Package 1	LA-5591	\$249.00

HOME AUTOMATION - ECONOMY RANGE - ACCESSORIES

THESE SUIT OUR LA-5592 MAIN CONTROLLER SHOWN ABOVE

240VAC Mains Switch Controller Module to suit LA-5592 Home Automation Main Controller

A compact wireless 240VAC Mains switch module to interface with our Home Automation Controller. Designed to be hard wired to your GPO, wall switches or other mains device, it enable you to remotely activate any mains appliances. Turn lights on and off, motors, heaters via the home automation main controller and input devices such as PIR, Reed Switch, key fob remotes and light sensors.

SUITS OUR LA-5592 CONTROLLER



SPECIFICATIONS	LA-5594
Voltage input	240VAC
Output Signal	NO or NC
Maximum Load	5A @ 240V
Wireless Range	100m line of sight
Wireless Frequency	433MHz

Note: A licensed electrician is highly recommended to hard wire this device into 240V mains wiring.



	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA-5594	\$39.95	\$35.95	\$31.95

Wireless PIR Sensor to suit LA-5592 Home Automation Main Controller

Expand the capabilities of your LA-5592 Home Automation System with additional PIR detectors.

SUITS OUR LA-5592 CONTROLLER



SPECIFICATIONS	LA-5157
Voltage input	Requires 2 x AAA batteries
Wireless Range	100m line of sight
Wireless Frequency	433MHz
Dimensions	1049H) x 60(W) 39(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA-5157	\$39.95	\$35.95	\$31.95

HOME AUTOMATION - ECONOMY RANGE - ACCESSORIES (CONTINUED)

THESE SUIT OUR LA-5592 CONTROLLER ON THE PREVIOUS PAGE

12VDC Switch Controller Module

This controller module is good for switching 12V devices such as lamps, cameras, doors and garage roller doors. Control wireless via the LA-5592 Main Controller via Time schedule, manual and Matrix or pair with the LA-5155 Key Fob Remote Control for use as a wireless switch.

SPECIFICATIONS	LA-5595
Voltage input	12VDC
Output Signal	NO or NC
Maximum Load	3A @ 14V/ 2A @ 24V
Wireless Range	100m line of sight
Wireless Frequency	433MHz

SUITS OUR LA-5592 CONTROLLER



	Cat.	Qty 1+	Qty 2+	Qty 4+
12V Switch Controller	LA-5595	\$49.95	\$44.95	\$39.95

Wireless Infrared Controller

A learning infrared controller designed to mount on the roof to directly control your household appliances. It will learn your appliances infrared remote command and repeat when matched with a home automation input device. Turn on or off your air conditioner and television; open your curtains, etc. The infrared LED's are clustered in a 360 degree formation and will operate devices up to 150m² in size. Unit is supplied with a mains power supply.

SPECIFICATIONS	LA-5597
Voltage input	12VDC
Wireless Range	100m line of sight
Wireless Frequency	433MHz

SUITS OUR LA-5592 CONTROLLER



	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless IR Controller	LA-5597	\$79.95	\$71.95	\$63.95

WIRELESS IR SECURITY

SUIT OUR LA-5592 CONTROLLER

Wireless Bell Box

A wireless bell box designed to interface with the LA-5592 Home Automation Controller. Works as an audible and visual deterrent, the siren produces a wailing 94dB of output and a powerful strobe when alarm is activated. It is supplied with 240VAC mains power adaptor.

SPECIFICATIONS	LA-5579
Voltage input	12VDC
Wireless Range	100m line of sight
Wireless Frequency	433MHz
Sound Output	94dB @ 1m
Strobe Flash Rate	1Hz

SUITS OUR LA-5592 CONTROLLER



	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Bell Box	LA-5579	\$99.95	\$89.95	\$79.95

Wireless Solar Doorway Beam

Pair this with our Home Automation Controller (LA-5592) to add an entry warning system to doorways, garages, driveways or hallways. This device is coupled with an amorphous solar panel to keep the doorway beams 4.8V Ni-MH battery pack charged, no need to worry about swapping out batteries or connecting up mains wiring. It will detect an interruption to the beam at up to 6m away which will trigger a warning on the main home automation controller. An ideal way to keep your entryways monitored.

- 4 x 500mAh 4.8V Ni-MH battery back

SPECIFICATIONS	LA-5593
Doorway width detection	0-6m
Transmission frequency	433MHz
Dimensions	71(W) x 65(L) x 44(H)mm
Solar panel dimensions	175(W) x 15(D)mm

SUITS OUR LA-5592 CONTROLLER



	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Solar Doorbell	LA-5593	\$64.95	\$58.45	\$51.95

Wireless Reed Switch

Use this wireless reed switch to trigger an alarm or siren. Used in conjunction with the Home Automation Main Controller LA-5592. Being wireless they are a breeze to install.

- A23 size battery required
- Dimensions: 58(H) x 30(W) x 12(D)mm

SUITS OUR LA-5592 CONTROLLER



	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Reed Switch	LA-5158	\$29.95	\$26.95	\$23.95

WIRELESS LIGHTING CONTROL

SUIT OUR LA-5592 CONTROLLER

Wireless PIR Solar Light Sensor

Automated light triggering is a simple yet effective security feature for homes. This kit comes with an extremely bright LED attached to a wall or roof mountable PIR sensor. The PIR sensitivity can be adjusted across a range from day to night and the light mode can be switched between flashing mode, on for 20 seconds, on for 50 seconds, or off completely. An internal 6.0V Ni-MH battery pack can be recharged with the supplied amorphous solar panel.

This device can be paired with our Home Automation Controller (LA-5592) for even greater control.

- LED on/off indicator



SPECIFICATIONS	LA-5599
Detection range	6-7m
Transmission frequency	433MHz
Transmission distance	100m (line of sight)
Power supply	5 x 1.2AA rechargeable batter pack
Dimensions	237(H) x 150(D)mm
Solar panel dimensions	175(W) x 15(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Solar PIR	LA-5599	\$119.00	\$106.95	\$94.95

Wireless Light Sensor Module

This light sensor module will interface with the Home Automation system to turn an output device on or off. It has an adjustable light setting to detect the desired ambient light trigger. You can interface this with a 240V mains controller to turn a light on at dusk or a 12V controller to open the curtains at the first sign of light.

SPECIFICATIONS	LA-5598
Wireless Range	100m line of sight
Wireless Frequency	433MHz

SUITS OUR LA-5592 CONTROLLER



	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Light Sensor	LA-5598	\$34.95	\$31.45	\$27.95

240VAC Mains Light Dimmer Module

This compact 240VAC Mains Light Dimmer module remotely controls the intensity of your 240VAC lamps. It has 8 steps of light dimming, perfect for light mood setting when entertaining guests. Unit is only suitable for incandescent type bulbs.

- Note: A licensed electrician is highly recommended to hard wire this device into 240V mains wiring.

SPECIFICATIONS	LA-5596
Voltage input	240VAC
Maximum Load	5A @ 240V
Wireless Range	100m line of sight
Wireless Frequency	433MHz

SUITS OUR LA-5592 CONTROLLER



	Cat.	Qty 1+	Qty 2+	Qty 4+
240VAC Dimmer	LA-5596	\$39.95	\$35.95	\$31.95

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HOME AUTOMATION - PREMIUM RANGE

This is a term where digital technology is used to simplify or integrate aspects of home management. Most home automation is designed to combine previously separate tasks into a central command & control workstation, typically a touch screen or even just a keypad. A PC can also form part of such a system.

Typical tasks that home automation can integrate are: interior & exterior lighting, air conditioning, audio & video feeds, telephone management, along with integration of home security including keyless entry, etc. Previously home automation was limited to large expensive homes. Up until now home automation components were hard wired inside walls using Cat5-type cabling.

It is now possible to achieve the same thing without expensive & disruptive cabling using high security, high reliability wireless technology.

We are proud to be the pioneer of Home Automation-in-a-box technology.

Wireless Gateway - Home Automation Controller

- Have you ever dreamt of controlling your homes lighting and appliances remotely?
- Have you ever wanted to turn your homes lights and appliances off and activate your security system with the touch of one button?
- Have you ever been on holidays and wanted to check on your home via video and be updated via Email of any events?

SECURITY ALARM FUNCTION

- Real Time / Emergency Notifications Via Email
- Home Automation Control Timers, scene control, remote operation
- Video Surveillance IP cameras support for live video monitoring
- Cost Effective True wireless connectivity
- Easy Installation DIY simple installation.

SECURITY

Fully secure your home with the LA-5570 Wireless Gateway. Featuring a wide range of wireless accessories such as door and window switches, PIR motion detectors and smoke detectors. You can easily build up a fully secure home environment to protect your home, family and property. Use either the wireless digital pulse input or the analogue input modules to connect a range of hard wired security sensors.

REAL TIME EVENT / EMERGENCY NOTIFICATION

The LA-5570 Wireless Gateway provides real time email notification allowing you to be immediately informed of an break in or panic notification.

AUTOMATION

Your LA-5570 Wireless Gateway is more than a fancy security system. It offers total control of your home appliances, lighting and power outlets. The LA-5570 can control your entire home allowing you to monitor and control appliances remotely via your Smartphone or web browser.

WIRELESS LCD WITH PSU - LA-5572

The wireless remote keypad allows for complete configuration and programming the LA-5570 Wireless Gateway. Has the look and feel of a typical alarm keypad with the extra functionality of controlling your lighting appliances.

- Away Mode Full Arming for All Zones
- Stay Mode For Arming certain Zones for Night Mode
- Zone Bypass function
- Panic button Emergency Alarm Activation (Can send Email)
- Tamper switch Activates Alarm if removed from the wall when Armed
- Simple to use navigation menus
- Powered by 2x AA batteries and mains adaptor
- Simply mount on the wall with the supplied mounting plate
- Dimensions: 157(L) x 95(W) x 21.5(H)mm

LA-5572



Control using your iPhone® or Android Smartphone



LA-5570



	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Gateway	LA-5570	\$219.00	\$196.95	\$174.95
Keypad Control	LA-5572	\$149.00	\$133.95	\$118.95

Professional Home Automation Package 2

We have teamed up our professional home automation controller with a range of suitable accessories to help take out the guess work and save you some money at the same time. The included Main Alarm Controller enables you to easily build up a fully secure home environment to protect your home, family and property. It offers total control of your home appliances, lighting and power outlets. The package includes a 240VAC plug in mains controller that is able to remotely activate any mains appliances. The module is designed to be hardwired to a 230VAC source, which then connect up to devices such as lighting, mains switches and appliances which can then be controlled wirelessly. The package also includes a wireless PIR sensor that detects infra-red radiation in 95° up to a distance of 5 metres. The LA-5576 siren is designed to receive signals from Home Automation sensors. It can interface with wireless PIR detectors, reed switches and smoke detectors.

This package also has 4 x AA Batteries (SB-2425) for siren, 2 x AAA Batteries (SB-2426) for PIR and 1 x CR2032 (SB-2522) for Reed switch.

PACKAGE INCLUDES:

- | | |
|------------------------------|---------|
| 1 x Main Alarm Controller | LA-5570 |
| 1 x 240V Mains Switch | LA-5578 |
| 1 x 240V Lighting Controller | LA-5575 |
| 1 x PIR | LA-5582 |
| 1 x Reed Switch | LA-5584 |
| 1 x Siren | LA-5576 |
| 4 x AA Batteries | SB-2425 |
| 2 x AAA Batteries | SB-2426 |
| 1 x CR2032 | SB-2522 |



	Cat.	Qty 1+
Home Automation Package 2	LA-5568	\$549.00

HOME AUTOMATION - PREMIUM RANGE - ACCESSORIES

THESE SUIT OUR PREMIUM RANGE SHOWN ON THE PREVIOUS PAGE

240VAC & 12VDC WIRELESS CONTROLLERS

Wireless Mains Controller

A 240VAC plug in mains controller that is able to remotely activate any mains appliances. Turn lights on and off, motors, heaters, etc wirelessly via the Gateway or remote control devices.



SPECIFICATIONS	LA-5578
Power Supply	230VAC 50Hz
Resistive Load	6.4A
Communication range	100 metres
Protocol	2.4GHz UIS
Battery life	2 years
Dimensions	88(L) x 52(W) x 39(D)mm

Product may vary from image

	Cat.	Qty 1+	Qty 2+	Qty 4+
240VAC Wireless Controller	LA-5578	\$89.95	\$80.95	\$71.95

Wireless 12VDC Switch Controller

A 12VDC Controller switch suitable for use with Garage doors and door strikes. It can also be used for switching other devices with a 12VDC control input such as lamps, cameras, etc. It has a magnet on the rear which enables easy fixture to metal surfaces.



SPECIFICATIONS	LA-5580
Power Supply	12VDC
Current	20mA
Communication range	100 metres
Protocol	2.4GHz UIS
Battery life	2 years
Dimensions	88(L) x 39(W) x 15(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
12VDC Wireless Switch	LA-5580	\$44.95	\$40.45	\$35.95

Wireless Relay Switch

Wireless relay switch which supports two D.I. (digital input) and two D.O. (digital output) interfaces. It supports bi-directional communication that allows you to receive or transmit signal with 3rd-party device by itself or interact with other UIS wireless devices.

- Features LED indicators for inputs and outputs, and screw terminals for easy wiring.
- Power supply included

SUITS OUR LA-5592 CONTROLLER



SPECIFICATIONS	LA-5577
Voltage input	12VDC
Wireless range	100m line of sight
Wireless frequency	433MHz
Max loading	10A (12VDC)
Dimensions	Note: Not mains rated 88(L) x 39(W) x 15(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Relay Switch	LA-5577	\$109.00	\$97.95	\$86.95

Wireless 240VAC Lighting Controller

Essentially a remote control relay that will allow control of up to two lights wirelessly. Plug it into a 230VAC source (or you can wire it in) then connect up to 2 lights and they can be remotely controlled.

- Not limited to lights, it could be used for switching any number of household devices.



SPECIFICATIONS	LA-5575
Voltage	240VAC
Communication range	100 Metres
Protocol	2.4GHz UIS
Dimensions	132(L) x 67(W) x 27(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
240VAC Wireless Light Controller	LA-5575	\$59.95	\$53.95	\$47.95

WIRELESS SECURITY & FIRE CONTROL

Wireless PIR Sensor

Our new range of Home Automation products also integrates alarm monitoring functionality. This Wireless PIR sensor further expands the capabilities of our Home Automation range by offering reliable motion detection. Like all PIR detectors, this unit detect infra-red radiation in 95° up to a distance of 5 metres. Uses 2 x AA batteries and has energy saving mode.



SPECIFICATIONS	LA-5582
Power Supply	2 x AA (not included)
Detection	Passive Infra-red
Communication range	100 metres
Protocol	2.4GHz UIS
Dimensions	92(L) x 34(W) x 34(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless PIR	LA-5582	\$69.95	\$62.95	\$55.95

Wireless Siren

A 240V AC plug in siren designed to receive signals from our range of Home Automation sensors. Unit can interface with wireless PIR detectors, reed switches and smoke detectors. Has a sound output of 85dB and also an LED visual indication on the front panel.



SPECIFICATIONS	LA-5576
Power Supply	240VAC 50Hz
Sound Output	90dB @ 1 metre
Communication range	100 metres
Protocol	2.4GHz UIS
Battery life	2 years
Dimensions	88(L) x 52(W) x 39(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Siren	LA-5576	\$69.95	\$62.95	\$55.95

Wireless Magnetic Reed Switch

This compact wireless reed switch interfaces with our Home Automation system allowing entry protection from windows and doors. Supplied with a mounting bracket for the main wireless switch, the magnet screws onto door or window frames. Also has power saving mode which enables the battery to last up to 2 years.



SPECIFICATIONS	LA-5584
Power Supply	CR2032
Communication range	100 metres
Protocol	2.4GHz UIS
Battery life	2 years
Dimensions	65(L) x 34(W) x 15(D)mm Main 70(L) x 12(W) x 15(D)mm Magnet

	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless Reed Switch	LA-5584	\$49.95	\$44.95	\$39.95

Remote Control

Miniature and slim line 3 button key fob remote control for use with our range of Home Automation devices. Quickly arm and disarm sensors, turn on lights, open doors and also integrates a panic button for emergencies. Buttons, arm, disarm and panic



SPECIFICATIONS	LA-5573
Power Supply	CR2032
Communication range	100 metres
Protocol	2.4GHz UIS
Battery life	2 years
Dimensions	64(L) x 30(W) x 13(D)mm

	Cat.	Qty 1+	Qty 2+	Qty 4+
Remote Control	LA-5573	\$44.95	\$40.45	\$35.95

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PORTABLE SOLAR PANELS

High Efficiency Monocrystalline Solar Panel Chargers

Quality solar panels with high efficiency and smaller footprint compared to our regular monocrystalline models. An easy way to keep your 12V batteries topped up and ready to go on your caravan, farm equipment, the spare car, or on the shed out the back. The dust and weather resistant panel features a robust frame, and is supplied with 3m long leads terminated with battery clips. Each version is fitted with a blocking diode, so they are suitable for direct connection to your battery as a trickle charger (take note of the minimum battery capacity), or as a low current charger to replace a load or current drain on the battery. A charge controller such as AA-0348 is recommended on the 10W and 20W versions when there is not enough current drain to prevent over-charging of the battery.

• 5 year warranty against materials and workmanship, and 20 year warranty for power output no less than 80%

SPECIFICATIONS	ZM-9050	ZM-9051	ZM-9052
Maximum power (Pmax)	5W	10W	20W
Rated voltage	12V	12V	12V
Voltage at Pmax (Vmp)	17.4V	17.4V	17.4V
Current at Pmax (Imp)	290mA	580mA	1.16A
Open circuit voltage (Voc)	21.8V	21.8V	22.0V
Short circuit current (Isc)	310mA	610mA	1.21A
Min. battery capacity	50Ah	100Ah	200Ah
Weight	0.67kg	1.15kg	2.5kg
Dimensions	251(W) x 205(H) x 18(D)mm	385(W) x 253(H) x 30(D)mm	520(W) x 360(H) x 30(D)mm

▲ Voltage	Wattage	Amps (Max.)	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	5W	290mA	ZM-9050	\$29.95	\$28.45	\$26.95
12V	10W	580mA	ZM-9051	\$49.95	\$46.95	\$44.90
12V	20W	1.16A	ZM-9052	\$89.95	\$84.95	\$80.95



Amorphous Solar Panel Chargers

Amorphous panels are larger than their crystalline equivalent, but offer higher output under cloudy conditions. They also perform better in hot temperatures as well. They are made in Asia under the control of one of the largest US manufacturers, and feature an aluminium picture frame type surround. The cells themselves are protected from the environment by a clear glass window. Note: The output from amorphous solar panels gradually decreases over years, unlike polycrystalline which do not.

SPECIFICATIONS	ZM-9024	ZM-9026
Maximum power	2W	4W
Rated voltage	12V	12V
Voltage (@ Pmax)	17.5V	17.5V
Current (@Pmax)	115mA	286mA
Short circuit current	150mA	450mA
Open circuit voltage	21V	21V
Dimensions	160 x 313 x 22mm	330 x 330x 22mm
Weight	1.0kg	2.32kg

▲ Voltage	Wattage	Amps (Max.)	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	2W	115mA	ZM-9024	\$29.95	\$28.45	\$26.95
12V	4W	286mA	ZM-9026	\$49.95	\$46.95	\$44.90



Lightweight Foldup Solar Panels with Carry Bag

While these solar cells aren't technically flexible, as a whole they use a combination of either 4 or 8 panels, providing versatile mounting and transport options. Keep them folded when not in use in the included carry bags, they are extremely compact. When you want to use them, simply unfold and lay in the sun! A charge controller is included, so you can connect directly to a battery without any additional hardware. The charge controller includes a 1.2A USB charging outlet, perfect for charging mobile phones and other devices in an emergency. Built with high grade monocrystalline solar panels, they're durable with great output for their size. A 50W and 100W output model is available.

- Folds into canvas bag
- Includes solar controller & battery clamps
- 3m lead with battery clamps

SPECIFICATIONS	ZM-9166	ZM-9168
Solar Cell Type	Mono Crystalline 156 x 156mm	Mono Crystalline 156 x 156mm
Power Output	50W	100W
Open Circuit Voltage	21.6VDC	21.6VDC
Short Circuit Current	2.97A	5.94A
Working Voltage	18VDC	18VDC
Working Current	2.78A	5.55A
Folded Size	325(W) x 360(H) x 30(D)mm	340(W) x 380(H) x 80(D)mm
Unfolded Size	325(W) x 1610(H) x 4(D)mm	664(W) x 1720(H) x 6(D)mm
Weight	2.76kg	5.18kg

▲ Voltage	Wattage	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	50W	ZM-9166	\$299.00	\$279.00	\$269.00
12V	100W	ZM-9168	\$499.00	\$469.00	\$449.00



SHOW US YOUR BUILD COMPETITION

Dave, who shops at our Jaycar Ipswich store built:

Had a problem with my dog breaking through my fence into neighbours yard. So I set up an electric tape fence to deter him. Used a 12V D.C. battery from Jaycar to run the energiser and a Jaycar solar panel to keep it charged during the day. I know, pretty basic compared to other entries, but it works!!



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FOLDING SOLAR PANELS

100W Mono Folding Solar Panel with Carry Bag

A 100W folding solar panel ideal for camping or road trips. Utilises monocrystalline solar cells with a highly efficient PWM (pulse width modulation) solar charge controller mounted inside the unit. The charge controller features a handy 5VDC USB output as well as a raft of battery protection attributes. For greater battery connection versatility, anderson connectors and alligator clips are included. The anderson terminated cable is a generous 4m long with an additional 1m anderson to alligator cable. The aluminium stands can be locked at various positions allowing easy angle adjustment for maximum sun exposure. Also features tough steel carry handle and a nylon carry case to keep everything neat and tucked away when not in use.

- 24 month warranty on solar charge controller
- Solar Charge Controller
- Type: PWM (pulse width modulation)
- LED indicators for battery status
- Supports SLA, GEL and Flooded batteries
- Realtime temperature compensation makes corrections to discharging and charging parameters to help improve battery life
- Overload, shortcircuit, over voltage, low voltage and reverse polarity protection
- Includes 5VDC USB output for charging smartphones and tablets

SPECIFICATIONS	ZM-9133
Pmax	100W
Rated voltage	12V
Voltage at Pmax	18V
Current at Pmax	5.56A
Open circuit voltage	21.6V
Short circuit current	6A
Weight	19kg
Anderson cable length	4m
Alligator terminated cable length	1m (connects to the Anderson cable so a total of 5m)
Dimensions Open	1078(W) x 610(H) x 35(D)mm
Dimensions Folded	534(W) x 610(H) x 73(D)mm



▲ Voltage	Wattage	Lead	Cat.	Qty 1+
12V	100W	4m	ZM-9133	\$249.00

12V 120W Folding Solar Panel with 5m Lead

Unfolds in seconds to provide up to 10A charging current in full sun. Integrated stands allow positioning with a premium angle to the sun. It provides a built-in charge controller and 5m lead to charge your battery without any additional hardware. When you're done, fold it back in half and pack it away. The solid aluminium frame is lightweight, yet strong. It will provide years of faithful service.

- Aluminium Frame
- Built-In 10A Charge Controller
- Includes Carry Case



SPECIFICATIONS	ZM-9176
Power Generation	12VDC @ 10A / 120W Max
Lead Length	5m
Weight	12kg
Panel Dimensions (Folded)	668(W) x 535(H) x 80(D)mm
Panel Dimensions (Unfolded)	1800(W) x 480(H) x 550(D)mm

POWERTECH



▲ Voltage	Wattage	Lead	Cat.	Qty 1+	Qty 4+
12V	120W	5m	ZM-9176	\$299.00	\$279.00

RECREATIONAL SOLAR PACKAGE DEALS

100W & 120W Portable Solar Power Kits

Power the 12V Fridge/Freezer, LED lighting, entertainment system, air pumps, etc. at the campsite with these portable power solutions. Position the folding solar panel to get the most sunlight for the best charge. See individual parts for warranty details. Two packages to choose from depending on your power needs.

- See individual parts for warranty details



100W KIT



ZM-9340



MEDIUM KIT INCLUDES

- 1 x Portable Battery Box with Voltmeter & Accessories
- 1 x 600W Pure Sine Wave Inverter & 20A Regulator
- 1 x 12V 100Ah AGM Deep Cycle Battery
- 1 x 100W Folding Solar Panel & 5m Lead

Cat. HB-8500
Cat. MI-5720
Cat. SB-1682
Cat. ZM-9133

120W KIT



ZM-9341



LARGE KIT INCLUDES

- 1 x Portable Battery Box with Voltmeter & Accessories
- 1 x 1,00W Pure Sine Wave Inverter & 20A Regulator
- 1 x 12V 100Ah AGM Deep Cycle Battery
- 1 x 120W Folding Solar Panel & 5m Lead

Cat. HB-8500
Cat. MI-5722
Cat. SB-1682
Cat. ZM-9176

▲ Voltage	Watts	Cat.	Qty 1+
12V	100W	ZM-9340	\$1,199.00
12V	120W	ZM-9341	\$1,349.00

RECREATIONAL SOLAR PACKAGE DEALS (CONTINUED)

A range of affordable DIY solar package deals from small entry level for light weight camping to a serious system to provide sufficient power for your off-road or boating get-away. Most of the packages come with everything needed to set up the complete power system with minimum wiring. See individual components for full details and warranty information in the Power section.

80 Watt Fixed Solar Standard Package

Includes:

- 1 x 80W monocrystalline solar panel
- 1 x 12V 8A charge controller
- 2 x female PV connector
- 2 x male PV connector

Cat ZM-9057
Cat MP-3720
Cat PS-5100
Cat PP-5102



Note: See individual products for warranty details.

▲ Voltage	Watts	Type	Cat.	Qty 1+
12V	80W	Fixed	ZM-9300	\$279.00

150 Watt Fixed Solar Panel Package

Includes:

- 1 x 150W monocrystalline solar panel
- 1 x 12V 20A PWM charge controller
- 2 x female PV connector
- 2 x male PV connector

Cat ZM-9059
Cat MP-3126
Cat PS-5100
Cat PP-5102



MORE INFORMATION...

Individual solar products and hardware are featured elsewhere in our power section

Note: See individual products for warranty details.

▲ Voltage	Watts	Type	Cat.	Qty 1+
12V	150W	Fixed	ZM-9301	\$349.00

LARGE POWER PACKS

Pure Sine Wave Portable Power Packs with Solar Panels

Fantastic all-in-one power packs ideal for your next camping trip, backyard party, or for providing power in the shed where mains power isn't available. They feature a 230VAC pure sine wave inverter for powering sensitive electrical appliances & common power outputs to power or charge your gadgets. The built-in SLA battery is charged using the supplied solar panels, making it a self-sufficient, sustainable portable energy source.

Choose between the standalone 120W, 300W with backpack or 600W model supplied with its own trolley.

Three packs available:

120W STANDALONE

- 18Ah SLA battery, 250A Jump Starter, 2 x 3W LED lights & 2 x 10W Solar Panels.

MB-3740

300W BACKPACK

- 24Ah SLA battery and 3 x 10W Solar Panels.

MB-3742

600W WITH TROLLEY

- 42Ah SLA battery and 4 x 10W Solar Panels.

MB-3746



MB-3740



MB-3742



MB-3742



MB-3746

SPECIFICATIONS	MB-3740	MB-3742	MB-3746
Inverter	120 Watt	300 Watt	600 Watt
SLA Battery	18Ah	24Ah	42Ah
Solar Panel	10 Watt x 2	10 Watt x 3	10 Watt x 4
230VAC Outputs	2	2	2
USB Ports	4	2	2
12VDC Ports	2	2	2
12V Cigarette Sockets	1	1	1
Adaptor	16V/3A AC/DC	16V/3A AC/DC	16V/5A AC/DC
LED	12V/3W x 2	-	-
Feature	200A Jump Starter	Backpack to suit	Wheeler to suit

▲ Pure Sine Wave Inverter	Lights	Panels	Type	Cat.	Qty 1+
120W with Solar Panels	2	2	Standalone	MB-3740	\$299.00
300W with Solar Panels	-	3	Backpack	MB-3742	\$399.00
600W with Solar Panels	-	4	Trolley	MB-3746	\$599.00



INVERTER GENERATORS

Sine Wave Inverter Generators

Cheap petrol generators can produce very dirty mains power - a disaster for precision electronics or any sensitive equipment. This unit comprises of a 4-stroke petrol engine, a low voltage electrical generator, and a pure sine wave inverter to give you clean mains power. This method provides a level of stability not possible in cheaper units. It's also intelligent, with an auto-throttling switch to increase and decrease motor speed to compensate for power demand. Of course you can override this to provide more stable power, at the expense of efficiency. With the addition of a parallel-link cable, you can stack two compatible units together. Join it with another 2kW unit for 4kW total output, or a 1kW unit for 3kW total output. This stacking ability provides the ultimate in flexibility when you need a lot of power. A full house of protections including overload and low oil automatic shutoff. A simple pull start keeps things simple, making every start a breeze. Housed in a rugged moulded case with integrated carry handle.

- Pure sine wave output
- Parallel stacking option
- Rugged and reliable

Note: Not regularly stocked in all retail outlets. Please call ahead to verify stock availability and/or place a customer order.

An extensive range of spare parts are available online or by special order in-store



MG-4506



MG-4508

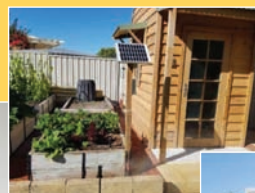
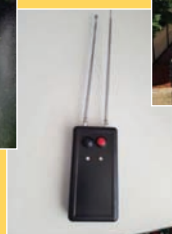
SPECIFICATIONS	MG-4506	MG-4508
Engine Type	53cc, single cylinder, air cooled, 4-stroke petrol	106cc, single cylinder, air cooled, 4-stroke petrol
Max Engine Power	1.2kW @ 5500RPM	2.2kW @ 4800RPM
Fuel Tank Capacity	2.6L	3.7L
Fuel Consumption	450g/kWh	420g/kWh
Running Time	3.5hrs at Full Power	3.8hrs at full power
Noise	92dB	91dB
Dimensions	470(L) x 254(D) x 386(H)mm	532(L) x 300(D) x 461(H)mm
Weight	15kg (dry)	23kg (dry)

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲ 1kW	MG-4506	\$749.00		
▲ 2kW	MG-4508	\$1,049.00		
▲ Accessories	Cat.	Qty 1+	Qty 2+	Qty 4+
Parallel Link Cable	MG-4509	\$39.95	\$37.95	\$35.95

SHOW US YOUR BUILD COMPETITION

Alan, who shops at our Jaycar Joondalup store built:

“Rats were eating my vegetables in the garden, so I built a solar powered, radio controlled electric fence around each of the beds. I can control it using a remote control that I built to activate or deactivate it from the house. This stops the dog from electric shock when it's in the garden.”

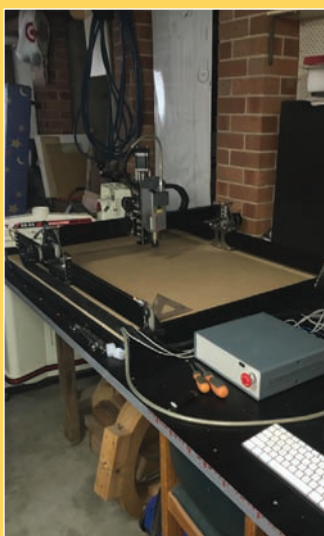


SHOW US YOUR BUILD COMPETITION

Peter, who shops at our Jaycar Penrith store built:

“This is my Ox Opens builds CNC machine made with Jaycar Encloser and electronics. Lots of trips to Penrith Jaycar and lots of helpful info from the great staff.”

Cheers Fellas!



SHOW US YOUR BUILD COMPETITION

Mat, who shops at our Jaycar Dunedin store built:

“I recently completed this DIY CNC Router. I used my Duratech TS-1564 solder station I purchased from Jaycar last year. It's a really great solder station and a much needed upgrade for taking on such a project. My multimeter also came in handy for finding those pesky faults!”



SOLAR LIGHTING AND POWER PACKS

	No. of Lights	Light Lead Lengths	USB Port	12V Port	Battery Type	Total Weight	Solar Charge Time	Mains Charge Time	Burn Time (Lowest brightness)
MB-3693	3 x 100 Lumens	3m each	●		4Ah 3.7V Li-ion	0.7kg	8-10 hours	5 hours	18 hours
MB-3699	4 x 3W / 1 x 2W	5m each	●		4Ah 6V SLA	2.2kg	13-15 hours	4 hours	15 hours
MB-3697	2 x 3W	5m each	●	●	4Ah 12V AGM	3kg	13 hours	4 hours	8 hours

All-in-one solar lighting and power solutions for the garage, shed, caravan, boat, or even tent! Each kit comes with a mains power adaptor to charge from mains and a solar panel for when mains power is not available. Each model includes a USB port so you can charge your phone, and lights on long leads so you can get lighting to where you most need it. There are three models to choose from with different power and lighting options.



MB-3693



MB-3699



MB-3697

SOLAR LIGHT KIT WITH USB PORT & REMOTE CONTROL - MB-3693

Uses a Li-ion battery to make it light and compact, making it great for camping applications or where space is a premium. Operate via remote control for added convenience.

- 3 individually switched (via remote control) 3W LED lights with 5m leads
- Provides up to 18 hours of light (lowest brightness)
- USB output
- Dimensions:
Solar panel: 150(L) x 180(W) x 17(D)mm
Base unit: 140(L) x 100(W) x 25(D)mm

SOLAR LIGHT KIT WITH USB PORT - MB-3699

The main unit features 2 x 3W LED lights built-in with two different brightness settings. The carry handle makes it a useful portable lantern.

- 3 individually switched LED lights (2 x 3W and 1 x 2W) with 5m leads
- Provides up to 15 hours of light (lowest brightness)
- USB output
- Dimensions:
Solar panel: 256(L) x 143(W) x 15(D)mm
Base unit: 190(H) x 100(W) x 75(D)mm

SOLAR LIGHT KIT WITH USB & 12V PORTS - MB-3697

Larger and heavier than the two shown above, but has a 12V port to power 12V devices via the cigarette lighter port. There's LED lights on the front panel to indicate battery and charge status.

- 2 individually switched LED lights with 5m leads
- Provides up to 8 hours of light
- USB output
- 12V 4A cigarette lighter socket
- Dimensions/Weight:
Solar panel: 320(L) x 160(W) x 17(D)mm, 0.9kg
Base unit: 240(H) x 206(D) x 112(W)mm, 2.16kg

▲	Lights	Cat.	Qty 1+	Qty 2+	Qty 4+
Solar Light Kit with USB Port & Remote Control NEW	3	MB-3693	\$79.95	\$71.95	\$63.95
Solar Light Kit with USB Port	5	MB-3699	\$99.95	\$89.95	\$79.95
Solar Light Kit with USB & 12V Ports	2	MB-3697	\$169.00	\$151.95	\$134.95

20W Camp Lighting Solar Package

Light up your outdoor adventure or campsite with the right lighting gear. This all-in-one LED lighting solar kit allows you to have a completely self-sustained lighting system in the outback. You could even use it in the backyard shed or garage that doesn't have mains power. Simply plug-and-use, no additional wiring required. The 1m LED lighting strip and solar panel are both weather resistant, so you can still use them in the rain. See individual product descriptions for specifications and warranty details.

Kit includes:

- | | |
|---|---------|
| 20W solar panel | ZM-9052 |
| 26Ah 12V deep cycle SLA battery | SB-1698 |
| Cigarette lighter socket to battery clips | PP-2007 |
| 1.2m ultra bright LED light strip | ST-3950 |



▲	Battery	Cat.	Qty 1+
12V 20W	SLA 26Ah	ZM-9308	\$298.00

SHOW US YOUR BUILD COMPETITION

Blacktown, who shops at our Jaycar store built:

“ I created a manual glow plug switch for my 4WD. On a recent trip my glow plug system failed in outback nsw. It took me over an hour and a half to diagnose the issue so when I got back I made a simple system using only a circuit breaker, isolator and switch. Much more simple and easy to diagnose! ”



CARAVAN POWER ACCESSORIES

Portable RCD with 15A to 10A Mains Plug Conversion

Convert your 15A power lead to fit a 10A power outlet whilst adding the additional safety of RCD earth leakage protection. Ideal if you only have a device with a 15A mains plug, and you are located somewhere that does not have a 15A power outlet available. Features a 10A circuit breaker/RCD in case you accidentally overload the device. Not suitable for outdoor use, unless combined with our HB-6178 weatherproof case.



SPECIFICATIONS	MS-4044
Voltage	240VAC, 50Hz
Max load	2400W 10A
Rated residual current	30mA
RCD type	AC & DC pulse sensitivity
Dimensions	180(H) x 135(D) x 124(W)mm
Electrical Safety Approval Certificate No.	SAA122512EA



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 15A to 10A Mains Adaptor	MS-4044	\$89.95	\$80.95	\$71.95

Weatherproof (IP55) Caravan Power Adaptor with RCD

Finally, a product that legally allows you to connect your caravan/RV into a normal domestic power outlet WITHOUT leaving a hole in your hip pocket - no need for unsafe and illegally modified extension leads!! Weatherproof rated to IP55 it is safe to leave outside, and with a residual current device (RCD) safety switch, this product gives you the ability to safely and legally connect your caravan 15A power lead to a normal 10A power outlet. Also includes a 10A circuit breaker in case you accidentally overload the device. A must have for any caravan or RV. Fully certified for electrical safety (AS/NZS 3190) and compliant to Australia Standards for caravan wiring (AS/NZS 3001).



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ MS-4048	MS-4048	\$119.00	\$106.95	\$94.95

Inline RCD Circuit Breaker

A vital safety device for anyone that works with electric power tools. It can also be a lifesaver when used with electric grasscutters, rice cookers, water heaters, induction cookers and hair dryers. As this unit is pre-wired with an AS/NZS rated mains plug & socket, no license is required to install it!

SPECIFICATIONS	QP-2002
Rated Voltage	240VAC
Rated Current	10A
Trip Current	30mA
Protection Class	IP65



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲ 10A 240VAC	QP-2002	\$34.95	\$30.95	\$27.95

Heavy Duty 15A Extension Leads

Proper heavy duty mains extensions leads with 15A plugs and sockets, and a thick orange flexible cord. The 15A socket end also features an internal LED to indicate that power is present. Perfect for caravans and motorhomes



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 10m	PS-4182	\$29.95	\$26.95	\$23.95
20m	PS-4186	\$49.95	\$44.90	\$39.90

SHOW US YOUR BUILD COMPETITION

Colin, who shops at our Jaycar Sunshine store built:

DIY project Vintage soundcase/boombox used switches connectors and rechargeable battery power to complete the project.



Portable RCD with 4 x 15A Sockets to 15A Mains Plug

Unlike conventional 10A units, you can draw a maximum 3600W from this one. It's made in a power block configuration, which includes a carry handle, and a pedestal base to keep all the plugs off the ground. It features a high power 15A Australian approved plug, and 30mA max RCBO protection. The 4 x outlets are 15A sockets, not 10A sockets.

- IP33 Dust/water ingress protection
- 30mA RCBO
- 15A Plug
- 3600W rated



NEW 2017

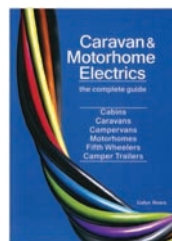
SPECIFICATIONS	MS-4047
Input	1 x 15A Mains Plug
Output	4 x 15A Mains Sockets (3600W total combined output)
Weight	1kg
Dimensions	180(H) x 170(W) x 140(D)mm
Cable Length	1.8m



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 4x15A	MS-4047	\$129.00	\$115.95	\$102.95

Caravan & Motorhome Electrics

A comprehensive text written primarily for owners, designers and builders of caravans, campervans and motorhomes who face unique power demands and challenges that most auto electricians are ill-equipped to properly address. The book covers every aspect of designing, installing and fixing the electrical systems in all type of caravans, camper-trailers and motor-homes. It explains how things work without the sales pitch jargon, and shows how to dramatically increase power efficiency as well as how to install solar power. Written with emphasis on proven techniques that work, rather than ideas that might work. Written by acclaimed Australian author and field expert Collyn Rivers, this is an essential reference for all caravan and motorhome enthusiasts.



- Softcover, 96 pages, 297 x 210mm (A4).

	Cat.	Qty 1+
▲ BE-1536	BE-1536	\$49.95

2 Pin 32 Volt Plugs & Sockets

For low voltage applications such as caravans etc up to 15amps.



Line Socket
PS-2073



Surface Socket
PS-2074



Line Plug
PP-2075

	Cat.	Qty 1+	Qty 10+	Qty 50+
▲ Line Plug	PS-2073	\$19.95	\$17.95	\$15.95
Surface Socket	PS-2074	\$19.95	\$17.95	\$15.95
Line Plug	PP-2075	\$9.95	\$8.95	\$7.95

Ratchet Crimping Tool for Non-Insulated Lugs

Very high quality with comfortable grip and ratchet mechanism to relieve strain on your hands. Ideal for anyone doing frequent or high volume crimping. The ratchet mechanism holds the crimper closed until complete, with a manual release when needed. The extra-long handle provides exceptional leverage, while the grips provide comfort for your hands. Suits (16AWG to 6AWG) 1.25 to 16mm non-insulated terminals. Ideal for crimping Anderson plugs up to 50A.

- Dimensions: 280 x 55 x 18mm (Closed)



NEW 2017

See next page for our Anderson connectors

	Cat.	Qty 1+	Qty 3+	Qty 6+
▲ TH-1847	TH-1847	\$34.95	\$30.95	\$27.95

BUY IT ON THE WEB...

Shop for all these Jaycar Electronics products on our website - and check out our latest products and special offers!



HIGH CURRENT CONNECTORS

These connectors first appeared on electric forklift trucks. They proved to be so useful, reliable and versatile the original type grew to be a family of connectors of various current carrying capacities.

The applications have grown considerably and now you commonly see them in RV, caravan and other off-road vehicle, and of course in marine applications.

50A Anderson Connectors

This is the most popular standard Anderson unit. It supports the greatest range of variations. It is very commonly used in marine, 4WD and caravanning applications. Supplied as a moulded grey body with identical positive and negative contacts. Inserting the contacts in the body automatically polarises the connector (Cable entry contacts do not change overall connector body size).



SPECIFICATIONS	PT-4425	PT-4427	PT-4420
Contact Rating	50A	50A	50A
Contact Wire Size	#8 AWG	#12-10 AWG	13.3mm ² (#6 AWG)
Voltage Rating	600V (AC or DC)	600V (AC or DC)	600V (AC or DC)
Max Wire Insulation Dia.	11mm	11mm	11mm
Contact Retention Force	22kg	22kg	22kg
Operating Temperature	-20 to +105°C	-20 to 105°C	-20 to +120°C
Anderson Part No.			SB50-6319
Dimensions	48(L) x 36.5(W) x 15.9(H)mm		

▲	AWG	Current Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
	8	50A	PT-4425	\$9.95	\$8.95	\$7.95
	12-10	50A	PT-4427	\$9.95	\$8.95	\$7.95
	6	50A	PT-4420	\$9.95	\$8.95	\$7.95

They were originally made by a company called Anderson® and indeed this name has become the generic description for the type.

Jaycar carries a very large range of Anderson-type connectors for every time high current needs to be reliably coupled together.

120A & 175A Anderson Connectors

These are the larger body connector styles that you commonly see on electric forklift trucks. You occasionally see them use as winch connectors on 4WDs, especially the PT-4422 model. Identical design to 50A model only larger. The positive and negative contacts are the same and inserting the contacts home inside the connector (once the power cable has been crimped or solder-sweated) is seated home the connector is automatically polarised.



SPECIFICATIONS	PT-4422	PT-4424
Contact Rating	120A	175A
Contact Wire Size	33.6mm ² (2 AWG)	53.5mm ² (1/0 AWG)
Voltage Rating	600V (AC or DC)	600V (AC or DC)
Max Wire Insulation Dia.	14.6mm	19mm
Contact Retention Force	45.5kg (100lbs)	137kg (300lbs)
Operating Temperature	-20 to +125°C	-20 to +125°C
Anderson Part No.	B120-6800G1	SB175-6325G1
Dimensions	63.5(L) x 44.5(W) x 20.6(H)mm	79.4(L) x 55.4(W) x 25.4(H)mm

▲	AWG	Current Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
	2	120A	PT-4422	\$19.95	\$17.95	\$15.95
	1/0	175A	PT-4424	\$29.95	\$26.95	\$23.95

HIGH CURRENT LEADS

50A Anderson Leads

A series of Anderson connector leads for automotive, caravan, 4WD or industrial interconnection. The design of the Anderson connector housing is genderless, whereby each connector simply interconnects with another so you can't plug them in the wrong way - one less thing to worry about! Each lead is pre-made with machine crimped terminations, and tinned copper cable. Connectors are rated at 50Amps, with either 8AWG cable or 16AWG cable fitted depending on the model.



Five versions available:

- PLUG EXTENSION, 8AWG 5M
- PIGGYBACK, 8AWG, 300MM
- EYE TERMINAL, 8AWG, 300MM
- ANDERSON TO 15A CIGARETTE PLUG, 16AWG, 300MM
- ANDERSON TO 15A CIGARETTE SOCKET, 16AWG, 300MM
- ANDERSON TO 2 X 15A CIGARETTE SOCKET, 16AWG, 300MM

- Cat. PT-4440
- Cat. PT-4442
- Cat. PT-4444
- Cat. PT-4446
- Cat. PT-4448
- Cat. PT-4447



▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	Plug Extension Lead	PT-4440	\$79.95	\$71.95	\$63.95
	Piggyback Lead	PT-4442	\$34.95	\$31.45	\$27.90
	Eye Terminal Lead	PT-4444	\$14.95	\$13.45	\$11.95
	Cigarette Plug Lead	PT-4446	\$16.95	\$14.95	\$13.35
	Cigarette Socket Lead	PT-4448	\$16.95	\$14.95	\$13.35
	2 x Cigarette Socket Lead NEW	PT-4447	\$24.95	\$22.45	\$19.95

50A Anderson Plug to Insulated Battery Clamps

Tough insulated battery clamps connected to an Anderson plug. Ideal for connecting a solar panel, portable fridge, compressor, or inverter to a battery.

- 8 AWG cable
- 50A rated
- Insulated battery clamps
- Length: 300mm



▲		Cat.	Qty 1+	Qty 10+	Qty 50+
		PT-4449	\$24.95	\$22.45	\$19.95

Solar Panel PV Plug & Socket to Anderson Plug - 300mm

Anderson connectors one end (50A), PV connectors on the other end. 4mm² conductor 30 amp capacity, twin sheath high quality cable. Ideal for connecting from an Anderson connector solar panel source to a PV load.

Comes with grommets on each side for straight forward and neater installations.



▲		Cat.	Qty 1+	Qty 10+	Qty 50+
		PS-5122	\$19.95	\$17.95	\$15.70

PV Connector to Eye Terminal Lead

A handy lead allowing you to attach your battery through the eye terminals to your PV connection on your solar panel.

Utilise these red and black 400mm cables, with grommets on each side for straightforward and neater installations.



▲		Cat.	Qty 1+	Qty 10+	Qty 50+
		PS-5124	\$19.95	\$17.95	\$15.95

RELATED PRODUCTS

FROM
\$4.15
WH-3060



DC POWER CABLE P161

FROM
\$7.95
WH-5525



HEATSHRINK P165

FROM
\$14.95
TH-1834



CRIMPING TOOLS P210

FROM
\$59.95
TS-1305



GAS SOLDERING IRONS P178

HIGH CURRENT CONNECTORS (CONTINUED)

Individual Nesting Connectors

They are genderless which means that there is no separate plug and socket and can be easily stacked to make custom configurations. Supplied as a red and black pair with contacts.



SPECIFICATIONS	PT-4402	PT-4405
Contact Rating	15A	30A
Voltage	600V (AC or DC)	600V (AC or DC)
Contact Wire Size	0.52-1.3mm ² (20-16AWG)	1.63-2.59mm (10-14AWG) closed barrel
Max Wire Insulation Dia	2.54mm	4.4mm
Contact Retention Force	9kgs (20lbs)	9kgs (20lbs)
Operating Temperature	-20 to +105°C	-40 to +125°C
SPECIFICATIONS	PT-4406	PT-4407
Contact Rating	45A	75A
Voltage	600V (AC/DC)	600 (AC or DC)
Contact Wire Size	1.63-2.59mm (10-14AWG) open barrel	1.3mm - 13mm (6 - 16AWG)
Max Wire Insulation Dia	4.4mm	1.3 - 13.3mm
Contact Retention Force	9kgs (20lbs)	22kgs (50lbs)
Operating Temperature	-40 to +125°C	-40 to +125°C

▲ AWG	Current Rating	Cat.	Qty 1+	Qty 10+	Qty 50+
20-16	15A	PT-4402	\$3.95	\$3.55	\$3.15
10-14	30A	PT-4405	\$4.95	\$4.45	\$3.90
10-14	45A	PT-4406	\$4.95	\$4.45	\$3.90
6-16	75A	PT-4407	\$11.95	\$10.45	\$9.45

Anderson Connectors - Plug & Socket

These little connectors can handle up to 600 volts continuous in AC or DC with maximum current of 10A. The green housing provides a visual indication of the ground terminal. Suitable for use in numerous applications from automotive to aviation. They will fit wire size from 14-16 AWG (2.1 to 1.3 mm²). Supplied as plug and socket pair.

- Plug Dimension: 27.5(H) x 8(L) x 8(W)mm
- Socket Dimension: 24.5(H) x 8(L) x 8(W)mm



▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	10A	PT-4416	\$6.95	\$6.25	\$5.55

Anderson Powerpole Series 4 Pin Data Connector

A genderless 4 pole signal Anderson connector in a PP15 casing. The design allows you to stack this with the PP15 series 15A Anderson connector (PT-4402) for DC and signal wiring connectivity. It provides a secure quick disconnect for power and signal distribution systems.

- Voltage: 300V
- Current Rating: 7A
- Up to 24 gauge for signal wire connectivity.
- Dimensions: 25(L) x 8(W) x 8(H)mm



▲		Cat.	Qty 1+
	Stackable 7A	PT-4403	\$14.95

ASSEMBLING ANDERSON STYLE CONNECTORS TECH TALK

These connectors come with absolutely no assembly instructions which might surprise some. Assembly is self-evident however.

All that you really have to do is solder-sweat the heavy gauge wire into the 'pot' on the end of the connector tip. It is a good idea to puddle some solder into the pot and then lower the tinned wire into the pot. It may be necessary to apply some more heat (usually with a small gas torch or stove gas top) to get the whole lot to melt. Try to keep the joint immobile until the solder 'sets', then cool off under tap water. And of course you can always crimp the lead into the solder cup, but this should really be done professionally. A piece of heat shrink ties the job nicely. The wire/lug/contact then just snaps into the housing. Look for our new Anderson terminal crimping tool on page 449!



Handles for Anderson Style Connectors

Facilitates easy connection/ disconnection. Ensures a secure grip, even with gloved hands for easier charging of electric forklifts etc.

Suits Anderson Style Connectors
50A Cat. PT-4420/25/27
120A Cat. PT-4422
175A Cat. PT-4424



▲ Suits	Cat.	Qty 1+	Qty 10+	Qty 50+
PT-4420/25/27	PM-4436	\$5.95	\$5.35	\$4.75
PT-4422	PM-4438	\$7.95	\$7.15	\$6.35
PT-4424	PM-4439	\$11.95	\$10.45	\$9.45

4 Way 15A Anderson Connectors

These are the high impact and corrosion-resistant black thermoplastic outer shells with a 4 way 15A Anderson® multi-connectors. They allow easy connection and disconnection for the electrical equipment in commercial and industrial applications. The cable clamps provides strain relief and integral latches to prevent any accidental disconnections of your equipment. The positive latching provides security in applications where shock or vibration may be severe and the integral strain relief to reduce the risk of wire breakage.

4 WAY 15A

- Dimensions: 53(L) x 32(W) x 22(H)mm
- Cat. PT-4434

4 WAY 15A WITH LATCH

- Dimensions: 53(L) x 32(W) x 22(H)mm
- Cat. PT-4436



▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	4 Way 15A	PT-4434	\$12.95	\$11.35	\$10.35
	4 Way with Latch 15A	PT-4436	\$12.95	\$11.35	\$10.35

For heavy current cable suitable for these connectors, see page 161

Anderson 35A SBS Mini Connectors

These compact mini connectors can handle up to 600 volts continuous in AC or DC with current up to 35A.

The mechanical and colour coded keys protect against accidental cross mating of connectors. The genderless housing makes for easy assembly in the factory or the field. The touchsafe housing prevents accidental exposure to live circuits and these also have the ability to disconnect under load.

Supplied as a moulded 2 pole with contacts



SPECIFICATIONS	PT-4480	PT-4482	PT-4484
Housing Colour	Black	Red	Grey
Contact Rating		35A	
Contact Wire Size		10 AWG	
Voltage Rating		600 (AC or DC)	
Max Wire Insulation		4.0mm ²	
Operating Temperature		20°C to 105°C	
Anderson Part No	B02265G2	B02265G1	B02265G4

▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	Black 35A	PT-4480	\$7.95	\$7.15	\$6.25
	Red 35A	PT-4482	\$7.95	\$7.15	\$6.25
	Grey 35A	PT-4484	\$7.95	\$7.15	\$6.25

SAFE WIRING PRINCIPLES

TECH TALK

Most of the products shown on these pages are designed for powering accessories in cars and trucks. They are perfect for example in wiring big power amps in your car. If you intend to use these components for critical applications (say, where safety is an issue) we suggest that you wire multiple circuits if possible and limit the current in each circuit accordingly. Then if you lose one circuit you will have some redundancy. You don't, for example want to lose your headlamp circuit at night because of Deep Purple! This principle, of course, applies to all high current wiring.

SHOW US YOUR BUILD COMPETITION

Christian, who shops at our Jaycar Roxburgh Park store built:



I made this 5 axis CNC router in my shed using Jaycar tools for the wiring. The machine is about 2.2m x 1.2m x 2.5m.

IN A HURRY? CLICK TO COLLECT!

Buy online, collect in-store!

To check if your local store offers "Click & Collect" visit: www.jaycar.com.au/store-finder



EXTENDED VERSATILITY ANDERSON ADAPTORS & ACCESSORIES

This range enables you to chassis or panel mount Anderson plugs. Something you have not been able to do in the past. There are also waterproofing boots, etc.

Chassis Mount Anderson Adaptors

Black cover assemblies with locking device and UV insulated protection to suit Anderson and Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine & industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover
- Heavy duty PA nylon construction



NEW 2017

1 YEAR WARRANTY

Three models available:

50A	PT-4460
120A	PT-4462
1750A	PT-4464

▲	Suits	Cat.	Qty 1+	Qty 3+	Qty 6+
	Suits 50A	PT-4460	\$19.95	\$17.70	\$15.70
	Suits 120A	PT-4462	\$24.95	\$22.35	\$19.70
	Suits 175A	PT-4464	\$27.95	\$24.95	\$22.35

50 Amp Connector Cover Assembly Quickfit

Anderson type quick fit connector cover. Suits charging systems for caravans, trailers, solar, marine, industrial.



1 YEAR WARRANTY

▲	Suits	Cat.	Qty 1+	Qty 3+	Qty 6+
	Suits 50A	PT-4466	\$25.95	\$23.35	\$20.70

50A Red Chassis Mount Anderson Adaptors

Red 50 amp cover assembly with locking device and UV insulated protection to suit Anderson and Anderson style connectors. Used for protection of power connectors in mobile environments. The intelligent design ensures a safe and reliable connection for towing, battery charging, marine and industrial OEM applications.

- Heavy duty materials for protection from the elements
- Compatible with most power connector brands
- Unique locking tab for secure connections
- Power connector snap fits into the cover
- Retractable access cover



1 YEAR WARRANTY

▲	Suits	Cat.	Qty 1+	Qty 3+	Qty 6+
	Suits 50A	PT-4470	\$19.95	\$17.70	\$15.70

Panel Mount Anderson Connector

Flush mount Anderson type quick fit connector cover. Suits charging systems for caravans, trailers, solar, marine, industrial.



1 YEAR WARRANTY

▲	Suits	Cat.	Qty 1+	Qty 3+	Qty 6+
	Suits 50A	PT-4472	\$24.95	\$22.45	\$19.95

Dustproof Rubber Boot for 50A Anderson Mounts

Rubber sleeve for water, dust and UV protection of Anderson style connectors.



1 YEAR WARRANTY

▲	Suits	Cat.	Qty 1+	Qty 3+	Qty 6+
	Suits 50A	PT-4474	\$3.95	\$3.50	\$3.15

High Current Dust/Water Resistant Rubber Covers

A water and dust resistant rubber cover to suit our connectors.



▲	Suits	Cat.	Qty 1+	Qty 10+	Qty 50+
	PT-4420/25/27 50A	PM-4434	\$7.95	\$7.15	\$6.35
	PT-4422 120A	PM-4432	\$14.95	\$13.45	\$11.95
	PT-4424 175A	PM-4430	\$17.95	\$15.95	\$13.95

Waterproof Anderson Connectors

These soft shell boots provide water, dirt, chemical and UV protection for the high current Anderson® connectors. The durable boots shield the connectors from water and dirt to IP64 when connected or by itself when the integral cover is used. The terminals of the rubber boot can also be customised to fit cables in-between 12-6 AWG (4-16mm²) wires.

- IP64 protection
- Resistant to UV, Roadway Chemical and Ozone
- Splash resistant when connected and by itself when the integral cover is used
- Customise boot terminals to fit your cables from 12-6 AWG which is 4-16mm²
- Mountable
- Easy to use

Dimensions when connected: 151(H) x 55(W) x 160(L)mm

50A BOOT LOAD SIDE -

- Dimensions: 85(H) x 55(L) x 20(W)mm

Cat. PT-4428

50A BOOT SOURCE SIDE

- Dimensions: 85(H) x 55(L) x 20(W)mm

Cat. PT-4429

120A BOOT LOAD SIDE

- Dimensions: 112(H) x 57(L) x 39(W)mm

Cat. PT-4431

120A BOOT SOURCE SIDE

- Dimensions: 118(H) x 59(L) x 39(W)mm

Cat. PT-4432

175A BOOT LOAD SIDE

- Dimensions: 135(H) x 77(L) x 42(W)mm

Cat. PT-4438

175A BOOT SOURCE SIDE

- Dimensions: 135(H) x 68(L) x 42(W)mm

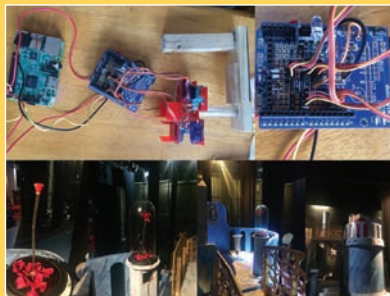
Cat. PT-4439



▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	Boots to Suit 50A Male	PT-4428	\$15.95	\$14.35	\$12.75
	Boots to Suit 50A Female	PT-4429	\$16.95	\$15.25	\$13.55
	Boots to Suit 120A Male	PT-4431	\$24.95	\$22.35	\$19.95
	Boots to Suit 120A Female	PT-4432	\$24.95	\$22.35	\$19.95
	Boots to Suit 175A Male	PT-4438	\$24.95	\$22.45	\$19.95
	Boots to Suit 175A Female	PT-4439	\$29.95	\$26.95	\$23.95

SHOW US YOUR BUILD COMPETITION

Paul, who shops at our Jaycar Wollongong store built:



I built an automated rose with 6 dropping petals for beauty and the beast. It used a Wi-Fi web server (RPI) talking to an Arduino with i2c which controlled 6 servos. The servo trays & rose head (& petal holders) were all 3D printed & the rose was an artificial one all cut up.

SHOW US YOUR BUILD COMPETITION

Jane, who shops at our Jaycar Warners Bay store built:



I modified the Jacobs ladder Mk3 kit to run on 24VDC that drives the primary of a Spark Gap Tesla Coil! The Secondary has 1,000 turns of 34AWG magnet wire and the pancake primary coil has 10 turns of 16AWG wire. It generates impressive high voltage arcs & can light up fluorescent bulbs wirelessly!

AUTOMOTIVE CONNECTORS

Waterproof Deutsch 2 Way Connector Set

High quality Waterproof 2-way "Deutsch" connectors commonly used in automotive or marine applications. Perfect for connecting up sensors/lights in the engine bay due to their superior corrosion protection and waterproof properties.

- Supplied as a male & female connector set with housings, wedges, seals and crimp pins.
- Rated to 13A current.



NEW
2017

1
YEAR
WARRANTY

▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	2 Way	PP-2150	\$6.95	\$6.25	\$5.50
	4 Way NEW	PP-2149	\$8.95	\$8.05	\$7.15
	6 Way NEW	PP-2148	\$9.95	\$8.95	\$7.95

Automotive Waterproof Plug & Socket Sets

Waterproof automotive connectors commonly used on many modern cars for wiring connections within the engine bay and other areas that are exposed to moisture. The interlocking parts are surrounded by a rubber seal, while an individual grommet seals each wire. Each package includes plug, socket, cable grommets and crimp pins.

- Current rating: 20A (max.)
- Pin spacing: 7.5mm
- Assembled Length: 70mm



▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	2 Way	PP-2110	\$7.95	\$6.95	\$6.25
	3 Way	PP-2112	\$10.95	\$9.75	\$8.75
	4 Way	PP-2114	\$16.95	\$14.95	\$13.35
	6 Way	PP-2116	\$19.95	\$17.70	\$15.70

Automotive Multi-Way Plug / Sockets - 250 Series

Commonly used in automotive applications such as stereo and CB installations, or for replacements in existing wiring. The housings interlock and they come in 2, 3, 4, 6 or 8 way sets. Each comes with plug, socket, and male and female locking lugs.



2 way & 6 way shown

▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	2 Way	PP-2062	\$2.95	\$2.60	\$2.30
	3 Way	PP-2064	\$3.45	\$3.05	\$2.75
	4 Way	PP-2066	\$3.95	\$3.45	\$3.15
	6 Way	PP-2068	\$4.95	\$4.45	\$3.90
	8 Way	PP-2069	\$6.95	\$6.25	\$5.50

2 Pin 32 Volt Plugs & Sockets

For low voltage applications such as caravans etc up to 15 amps.



PS-2073

PS-2074

PP-2075

▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	Line Socket	PS-2073	\$19.95	\$17.95	\$15.95
	Surface Socket	PS-2074	\$19.95	\$17.95	\$15.95
	Line Plug	PP-2075	\$9.95	\$8.95	\$7.95

RAINCHECK!

If your local Jaycar store has sold out of a currently advertised line we will be happy to issue you with a 'raincheck'. Conditions apply - see page 528 for details.

RELATED PRODUCTS

FROM
\$5.25
WH-3045



7.5A DC CABLE 10M ROLL P161

FROM
\$3.20
HP-1221



LOOM TUBE P167

FROM
\$16.95
TH-1824



WIRE STRIPPERS P212

FROM
\$7.95
WH-5525

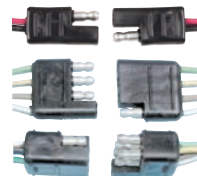


HEATSHRINK P165

Wired Multi Pin Plugs / Sockets

Heavy duty plug and socket with bullet type connectors.

- Pre wired with 18AWG wire.
- Extremely handy when cables need to be periodically unplugged.
- Bullet style connectors

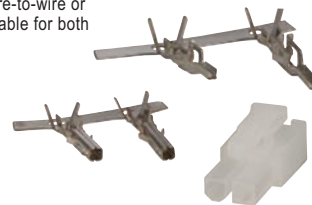


▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	2 Way	PP-2034	\$3.45	\$3.05	\$2.75
	4 Way	PP-2030	\$8.95	\$7.95	\$6.95
	6 Way	PP-2032	\$11.95	\$10.70	\$9.50

Miniature Nylon MOLEX-Type Connectors

Suitable for high current/high density, wire-to-wire or wire-to-board applications. They are suitable for both power and signal connections.

- Fully isolated terminals
- Positive housing locks
- Four point of contact for reliability
- Low engagement force terminals
- Male and female pins supplied
- Wire size: 24-18AWG
- Current rating: 5A
- Voltage rating: 250VAC/350VAC



▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	2 Pin	PP-2021	\$2.75	\$2.45	\$2.15
	3 Pin	PP-2023	\$2.95	\$2.60	\$2.30
	4 Pin	PP-2027	\$3.45	\$3.05	\$2.75
	6 Pin	PP-2025	\$3.95	\$3.45	\$3.15

Multi Pin Plug / Socket

Each set consists of nylon body for male/female, along with male/female socket pins to fill all available poles. Will mate with standard MOLEX-type connectors.

- Wire size: 24-14AWG, 0.2 to 2.0mm
- Current rating: 15A AC/DC max.
- Voltage rating: 300VAC/DC



TECH TALK

Sometimes called Soft Shell connectors

PP-2020

▲		Cat.	Qty 1+	Qty 10+	Qty 50+
	2 Pole	PP-2020	\$2.75	\$2.45	\$2.15
	3 Pole	PP-2022	\$2.95	\$2.60	\$2.30
	6 Pole	PP-2024	\$3.95	\$3.45	\$3.15
	12 Pole	PP-2026	\$6.95	\$6.25	\$5.50

Pin Extraction Tool

Take the frustration out of removing Molex connector pins with these time save tools. Simply slide the tool over the connector and push the plunger to effortlessly remove the pin. Both male and female pin extractors available.



TH-1730

TH-1732

▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	Male Extractor	TH-1730	\$24.95	\$22.45	\$19.95
	Female Extractor	TH-1732	\$24.95	\$22.45	\$19.95

BUY IT ON THE WEB...

Shop for all these Jaycar Electronics products on our website - and check out our latest products & offers!

MERIT AUTOMOTIVE CONNECTORS

Merit Plugs & Sockets

Smaller in size than existing cigarette lighter connectors, they also have the advantage of a superior rugged construction and higher current carrying capability. The panel sockets feature a flip down cover to resist ingress of moisture and dust, and can withstand long periods of sustained current draw (unlike the el-cheapo versions of these connectors!). We have even included a modular merit plug to cigarette lighter adaptor in our range for those people who need both styles in a single connector (like those used on popular brands of 4WD fridges and spotlights).



MERIT PLUG WITH CIGARETTE LIGHTER ADAPTOR (FUSED MAX 8A)



PP-2094

IN-LINE MERIT SOCKET WITH COVER (MAX 15A)



PS-2096

UNFUSED MERIT PLUG (15A)



PP-2090

MERIT PANEL SOCKET WITH SPRUNG COVER (MAX 15A)



PS-2092

	Cat.	Qty 1+	Qty 10+	Qty 50+
Unfused Plug	PP-2090	\$6.95	\$6.25	\$5.55
Plug with Cigarette Lighter Adaptor	PP-2094	\$6.95	\$6.25	\$5.55
Panel Socket with Sprung Cover	PS-2092	\$9.95	\$8.75	\$7.75
In-line Socket with Cover	PS-2096	\$6.95	\$6.25	\$5.55

MARINE GRADE CIGARETTE PLUGS & SOCKETS

Marine Grade 10A Locking Cigarette Plugs & Sockets

Marine grade, weather and UV resistant. Ideal for situations where your 12V gear will face mud, dust, salt and other contaminants. A matched locking plug and socket will lock together securely for protection against vibration and shock, or happily work individually with normal cigarette plugs/socket as well.

- PP-1970 plug features a green power LED indicator
- Rated current: 10A
- Fuse protected (PP-1970)
- PS-1972 features protective dust cap and mounting panel
- Locking pins so stay plugged in when plug and socket matched

Dimensions:

PP-1970: 90(L) x 25(Dia)mm
 PS-1972: panel: 59(L) x 43(W) x 4(D)mm, socket 40(L) x 36(Dia)mm
 PS-1974: 70(L) x 51(H) x 58(W)mm



PP-1970



PS-1972



PS-1974

+ Need more than 10 amps? Why not have a look at Anderson connectors. They start on page 450

	Cat.	Qty 1+	Qty 10+	Qty 50+
Cigarette Plug with LED	PP-1970	\$6.95	\$6.25	\$5.55
Panel Mount Socket + Dust Cover	PS-1972	\$6.95	\$6.25	\$5.55
Surface Mount Socket with Dust Cover	PS-1974	\$12.95	\$11.35	\$10.35

Marine Grade 10A Cigarette Power Sockets

High current, marine grade cigarette power sockets capable of up to 10A current, and supplied with multiple mounting options. There is a flat mounting panel, an under dash bracket (for PS-2020 only), and a surface mounting "hood".

- Connections via 6.3mm spade terminals

Four versions available:



PS-2020



PS-2022



PS-2024



PS-2026

SINGLE CIGARETTE POWER SOCKET

Includes panel, under dash & surface mount brackets
 Cat. PS-2020

DUAL CIGARETTE POWER SOCKETS

Includes panel & surface mount brackets
 Cat. PS-2022

CIGARETTE POWER SOCKET & LED VOLTMETER

Includes panel & surface mount brackets
 Cat. PS-2024

CIGARETTE POWER SOCKET & 2 PORT USB CHARGER (3.5A)

Includes panel & surface mount brackets

Dimensions - Panel mount:

- Single - 60(W) x 42(H)mm

- Dual - 100(W) x 42(H)mm

• Surface mount hoods:

- Single - 55(W) x 80(L) x 50(H)mm

- Dual - 98(W) x 78(L) x 49(H)mm

- Under dash bracket: 58(W) x 51(H) x 15(D)mm (PS-2020 only)

Cat. PS-2026

	Cat.	Qty 1+	Qty 10+	Qty 50+
Cigarette Socket - Single	PS-2020	\$14.95	\$13.45	\$11.95
Socket - Dual	PS-2022	\$19.95	\$17.95	\$15.70
Socket with LED Voltmeter	PS-2024	\$27.95	\$24.95	\$22.35
Socket with 2 USB Ports	PS-2026	\$29.95	\$26.95	\$23.70

Modular Panel Mount Brackets

Compatible with many of our cigarette lighter sockets, charging outlets, and more. They use a clever modular design so you can stack multiple units together into one cutout, for a classy and uniform look. There's also a 4-way (2 x 2) mount which suits the same range of accessories. Also 100% interchangeable with the rocker-switch variant of these brackets - SK-0802 / SK-0804 (see page 226).



PS-2806



PS-2808



PS-2810

NEW 2017

	Cat.	Qty 1+	Qty 10+	Qty 50+
Modular End	PS-2806	\$3.95	\$3.55	\$3.15
Modular Centre	PS-2808	\$3.95	\$3.55	\$3.15
4 Way (2 x 2) Plate	PS-2810	\$6.95	\$6.25	\$5.55

CIGARETTE LIGHTER PLUGS

Cigarette Lighter Plug

Simply plugs into the car cigarette lighter socket to obtain 12VDC from the car battery.

- Economy grade



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
Economy	PP-2000	\$1.65	\$1.45	\$1.30

5 Amp Lead With Bare Ends

Lead with a 5 amp fused cigarette lighter plug on one end.

- Cable length: 450mm approx.
- Cable thickness: 18AWG



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
5A	PP-1995	\$2.95	\$2.60	\$2.30

Cigarette Lighter Plug - Fused

As PP-2000 but with the added safety benefit of being fused. Supplied with 3A fuse.

- Recommended



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
3A	PP-2001	\$3.95	\$3.45	\$3.15

8 Amp Lead With Bare Ends

A lead consisting of an 8 amp fused cigarette lighter plug and 5 metres of thick cable.

- 18 AWG cable



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
8A	PP-1998	\$13.95	\$12.35	\$10.95

CIGARETTE LIGHTER SOCKET WIRING

TECH TALK



Auto cigarette lighter wiring rarely allows more than 15A to be taken from this circuit.

CIGARETTE LIGHTER SOCKETS

Cigarette Lighter Inline Socket

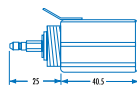
- 5A max



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-2003	\$3.95	\$3.45	\$3.15

Cigarette Lighter Chassis Socket

- Install in dash
- 21mm hole required



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-2002	\$6.95	\$6.25	\$5.50

Dash/Panel Mount Cigarette Lighter Socket with Cap, 15A

Provides a cap protected cigarette lighter socket for your boat, car, or truck. Easy to install includes 2 x countersunk screw holes for easy mounting. Rated at 15A with 6.3mm spade connections

- Dimensions: 56(W) x 31(H) x 50(D)mm



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-2004	\$9.95	\$8.75	\$7.75

15A Cigarette Socket to 8mm Eye Terminal

A handy lead allowing you to power your 12VDC cigarette lighter plug devices from a range of 12VDC sources. The cigarette lighter socket is attached to 16AWG 400mm long red and black lead with 8mm eye terminals on each end.

- Rated to 15A max.



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PT-4451	\$12.95	\$11.35	\$10.35

Under Dash Cigarette Lighter Socket With Protective Cap

This socket can be mounted under a car or boat dash and features a hinged cap with protective gasket.

- Heavy duty auto cable pre-attached
- 450mm length.



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-2008	\$12.95	\$11.35	\$10.35

Under Dash Double Cigarette Lighter Socket

A dual socket mounted on a steel frame which in turn mounts under the dashboard. Heavy duty auto cable is included with in-line fuse holder and terminated with a bullet and Y connector.

- Lead length 300mm
- Self tapping mounting screws included



▲	Cat.	Qty 1+	Qty 10+	Qty 50+
	PS-2009	\$12.95	\$11.35	\$10.35

Car Cigarette Lighter Socket with Lid

This weatherproof 12V car cigarette lighter socket can be flush mounted and has a springloaded lid to keep it free of dust and debris.

- Perfect for caravan, marine, 4WD or other harsher than normal applications.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-2015	\$14.95	\$13.35	\$11.70

Weatherproof Cigarette Lighter Socket - 15A

Suitable for marine, caravan, 4WD, camping or anywhere you need 12V power. Protected from the elements by a spring-loaded sealed cover and fully sealed electrical connection.

- Panel mounting.
- 32mm mounting hole
- Flylead termination.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-2011	\$14.95	\$13.35	\$11.70

BIKE MOUNT POWER SOCKETS

Motorcycle Cigarette Lighter Socket Mount

A motorcycle 12 volt power outlet is a great addition to your motorcycle when out touring. This is a full kit to install directly to your motorcycle to give you a 12V cigarette lighter socket. It can be used as a power outlet for spotlight, or anything that can be powered by a 12 volt battery.

- Fits the common motorcycle handle bar diameters of: 17-33mm
- 12VDC
- IP65 rated
- 1.5m cable with inline fuse



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	PS-2126	\$19.95	\$17.95	\$15.95

Motorcycle Dual USB Socket Mount

A motorcycle Dual USB Port is a great addition to your motorcycle when out touring. This is a full kit to install directly to your motorcycle to give you a USB port. It can be used as a power outlet for GPS, mobile phone charger or anything that can be powered by a USB Socket.

- Fits the common motorcycle handle bar diameters of: 17-33mm
- 12VDC
- IP65 rated
- 1 x 1A & 1 x 2.1A 5V output (3.1A total)
- 1.5m cable with inline fuse



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1.5m	PS-2128	\$29.95	\$26.95	\$23.95

CIGARETTE LIGHTER ADAPTORS & EXTENDERS

Fused Cigarette Lighter Plug to 2.1mm DC Plug

Has an internal fuse & LED power indicator.

- Supplied with 3A, 3AG fuse
- Cable length 500mm
- LED power indicator



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
500mm	PP-1993	\$2.95	\$2.60	\$2.30

Fused Cigarette Lighter Plug to DC Plug

Has an internal fuse and LED power indicator.

- Supplied with 5A, 3AG fuse
- Cable length 1.5m



▲ Length	DC Plug	Cat.	Qty 1+	Qty 3+	Qty 6+
1.5m	2.5mm	PP-1997	\$4.95	\$4.45	\$3.90
1.5m	2.1mm	PP-2008	\$4.95	\$4.45	\$3.90

Car Lighter Socket To Clips

This lead simply clips onto car battery terminals and has a cigarette lighter socket on the other end.



▲ Length	Cat.	Qty 1+	Qty 10+	Qty 50+
400mm	PP-2007	\$9.95	\$8.75	\$7.75

Cigarette Lighter Extension Cord

Cigarette lighter extension cord with dust cover. Extend the range of your cigarette lighter devices.

- Fuse: 5A



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
300mm	PP-1992	\$14.95	\$13.45	\$11.95

15A Heavy Duty Cigarette Lighter Extension Lead - 3m

A heavy duty waterproof cigarette lighter extension lead to extend the reach of your 12VDC devices. Features internal fuse protection with LED power indicator. Fits all 12VDC plugs & sockets. Flexible curly cord design.



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
3 metres	PP-2144	\$12.95	\$11.35	\$10.35

Cigarette Lighter Double Adaptor

Incorporates a lighter plug and two inline sockets

- 150mm cable



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
150mm	PP-2006	\$9.95	\$8.75	\$7.75

SAE POWER LEADS

SAE Type Plug to Cigarette Lighter Plug or Socket

These units consist of the popular polarised SAE plug/skt to a line cigarette lighter socket. The socket has a rubber moisture/dust cover. The lead assembly is 450mm long and the wiring is 10A rated, unfused.

Three models available.



PP-2012



PP-2014



PP-2016

▲	Cat.	Qty 1+	Qty 10+	Qty 50+
SAE Plug to Battery Fused Lead	PP-2012	\$9.95	\$8.75	\$7.75
SAE Plug to Cigarette Plug Lead	PP-2014	\$14.95	\$13.45	\$11.95
SAE Plug to Cigarette Socket Lead	PP-2016	\$9.95	\$8.75	\$7.75

Cigarette Lighter Plug to Merit Socket Adaptor

This handy adaptor lead allows you to connect your device equipped with a merit plug into a standard cigarette lighter socket.



▲ Length	Cat.	Qty 1+	Qty 10+	Qty 50+
300mm	PP-2098	\$12.95	\$11.35	\$10.35

Merit Plug to Cigarette Lighter Socket

Allows you to connect mobile phone chargers and other cigarette lighter plugged devices into vehicles equipped with a Merit socket.



▲ Length	Cat.	Qty 1+	Qty 10+	Qty 50+
300mm	PP-2099	\$12.95	\$11.35	\$10.35

Cigarette Lighter Adaptor Cable

Contains no circuitry and allows you to power 12V devices from your car cigarette lighter socket.

- Cable length 1.8m long
- Fused
- LED power indicator. Supplied with 8 DC plugs. 2.35 x 0.75, 3.5 x 1.35, 4 x 1.7, 5.5 x 1.5, 5 x 2.1, 5.5 x 2.5, 2.5mm & 3.5mm. (OD first then ID)



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.8m	PP-1996	\$9.95	\$8.95	\$7.95

Replacement Power Lead for Thermoelectric Cooler/Warmers

A replacement DC power lead to suit most common thermoelectric cooler/warmers which have the notched rectangular shape DC power input.

- Can fit into cigarette or merit sockets
- 1.8m long



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.8m	PP-1986	\$17.95	\$16.10	\$14.35

Heavy Duty 10A Cigarette Power Extension Lead - 5m

This cigarette power extension lead has been specifically designed to carry 10A continuous current with minimal voltage drop. This allows you to move your DC fridge/freezer and other DC equipment some distance away from your battery, whilst minimising low voltage protection issues. Very handy on the campsite or in your caravan. Fitted with a convertible cigarette/merit plug and high current cigarette socket, and made with 12AWG tinned copper cabling.



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
5 metres	PP-2151	\$49.95	\$44.95	\$39.95

12VDC Cigarette Lighter Twin Socket

Allows you to run two 12V appliances from the one socket.

- Input voltage: 12-24VDC
- Output voltage: 12-24VDC
- Output current: <6A
- LED indicator.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	PP-2005	\$9.95	\$8.75	\$7.75

12/24VDC Cigarette Lighter Socket Splitter with 2 x USB Ports

Power two 12V accessories and 2 x USB devices at the same time. Features a fused cigarette lighter plug on a 650mm lead, and mounting holes for a permanent installation.

- Input: 12/24VDC
- Output: Cigarette Lighter Sockets: 2 x 3A max each / USB Ports: 2 x 5V 2.1A total
- Dimensions: 114(L) x 50(D) x 33(H)mm



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
650mm	PP-2136	\$15.95	\$14.35	\$12.75

CIGARETTE LIGHTER ADAPTORS & SPLITTERS

12VDC Car Cigarette Lighter Socket 4 Way Splitter with USB Port

This socket splitter enables you to power up to four 12VDC plug appliances at once. Plus it features a USB port to charge your iPhone® or other USB gadget. Comes with a detachable mounting base so you can mount this unit horizontally or vertically on your dash or centre console, and detach it for flexible use. Use this socket splitter with our 12V extension cord PP-1990 to enjoy more creature comforts in your tent on your next camping trip.

- 12VDC plug with 1.2m lead / 4 x 12VDC socket outputs
- 1 x 5VDC 1A USB port / 10A max



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.2m	PS-2019	\$19.95	\$17.95	\$15.95

3 Way Cigarette Lighter Sockets with USB Power and Voltmeter

Take what is probably the only cigarette lighter socket in your dash, and power up to 7 devices! You get three cigarette lighter sockets, two high-current 2.4A USB charging sockets, and two standard 1A USB charging sockets. Of course, a 120W maximum total applies (since that's the maximum rating of the one in your dash). The three cigarette lighter sockets aren't voltage regulated, so they'll output the same voltage as your vehicle, however the USB charging ports are regulated to 5VDC regardless of the input.

SPECIFICATIONS	PP-2120
Power Input	12-24VDC
USB Output	5V, 6.8A Max. (2.4A + 2.4A + 1A + 1A)
Lighter Socket Output Power	12-24VDC (Unregulated to input) 120W (Max.)
Safety Fuse	10A
Dimensions	110(W) x 55(D) x 31(H)mm



NEW
2017

1
YEAR
WARRANTY

▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1m	PP-2120	\$29.95	\$26.95	\$23.95

DASH MOUNT USB SOCKETS

Under-Dash or Panel Mount USB Socket

This handy fitting enables you to position a USB outlet under a wooden, fibreglass or metal dashboard complete with rubber plug moisture/dust cover. Alternatively, you can remove the actual USB insert to panel mount the USB socket. The insert requires a 22mm Dia hole but it will go through upto 38mm of panel so your panel can be wood if necessary. This is a very versatile fitting and you have to see it to appreciate what it is capable of.

- Output: 5VDC, 2.1A
- In-line fuse holder included
- Sealing washers/gaskets, mounting screws included
- Smart silver trim bezel included



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x USB	PS-2016	\$10.95	\$9.75	\$8.75

USB Socket with Weatherproof Cap

A USB power socket with weatherproof cover, suitable for mounting on motorbikes, under-dash on boats or open-top cars. Outputs 5VDC to power or charge Smartphones, Tablets, GPS, etc. Mount to almost any surface using screws, cable ties, double-sided tape, etc (Mounting hardware not included). Supplied with 1.2m fused lead with SAE connectors for easy disconnect.

- Power input: 12/24VDC
- Output: 5VDC, up to 2.1A



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x USB 1.2m	PS-2017	\$22.95	\$20.45	\$17.95

Easy-Install Qualcomm® Quick Charge™ 2.0 USB Charger

Features rapid Quick Charge™ 2.0 charging support, for reduced recharge time. Supplied with panel and surface mount hardware, to easily mount inside your car, caravan, truck etc. You can power it from 12-24V, suitable for cars and dual-battery trucks alike. Includes removable dust cover.

- Input: 12-24VDC
- Output: 5V @ 2.4A / 9V @ 2A / 12V @ 1.5A
- Dimensions: 50(D) x 35(Dia.)mm



NEW
2017

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
1 x USB Quick Charge™	PS-2032	\$24.95	\$22.45	\$19.95

Dual USB Charging Ports 4.2A Output 12/24VDC

A dual USB port is a great addition to your vehicle when out touring. It can be used as a power outlet for GPS, mobile phone charger or anything that can be powered by a USB Socket.

- Input power: 12/24VDC
- Total 5V 4.2A output



NEW
LOW
PRICE

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
2 x USB	PS-2028	\$22.95	\$20.45	\$17.95

Easy-Install 2 x 2.1A Dual USB Charging Ports

Supplied with panel and surface mount hardware, to easily mount inside your car, caravan, truck etc. You can power it from 12-24V, suitable for cars and dual-battery trucks alike. Includes removable dust cover.

- Input: 12-24VDC
- Output: 2 x 5VDC @ 2.1A (Max)
- Dimensions: 50(D) x 35(Dia.)mm



NEW
2017

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
2 x USB	PS-2030	\$26.95	\$23.95	\$21.45

2 Port USB Charger with 3.1A Output, 12/24VDC

Get rid of your messy cigarette lighter car chargers, and fit something more permanent and better looking. This 2 port USB charger has one port with 1.0A for charging a Smartphone, and the 2nd port can deliver 2.1A for fast charging your Tablet. Input power compatible with 12V and 24V battery systems, with connection via 6.3mm spade terminals. Supplied with panel mount, under dash bracket, and a surface mount "hood".

- 2 port USB Charger: 36(Dia) x 50(D)mm
- Panel mount: 60(W) x 42(H)mm
- Under dash bracket: 58(W) x 51(H) x 15(D)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm



1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
2 x USB	MP-3616	\$24.95	\$22.50	\$19.95

2 Port Panel Mount USB Charger - 3.1A Output 12/24VDC

This two port USB panel mount charger is designed for charging your electronic devices. It has a black housing with a rubber weather-flap cover to protect the USB sockets. Ideal for quickly charging a GPS, iPhone®, iPod®, PSP, mobile phones etc. Designed in the same housing as our range of laser etched auto rocker switches, enabling you to mount them side by side to give a great look to your switch panel.

- Dual USB output 5V, 3.1(Shared between two ports)
- Fused, easy to install
- Input: 12-24VDC / Output: 5VDC
- Dimensions: 43(L) x 40(D) x 24(W)mm



1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
2 x USB	MP-3618	\$24.95	\$22.50	\$19.95

Panel Mount Volt Meter with 2 Port USB Ports

This panel mount voltmeter will show your car battery voltage as well as provide 2 USB ports with a total of 4.2A output for charging your phone or other USB devices. Suitable for 12 and 24 volt vehicle electrical systems.

- Dimensions: 43(L) x 40(D) x 24(W)mm



1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
2 x USB	MP-3619	\$34.95	\$31.45	\$27.90

BLADE FUSE HOLDERS

30A In-Line Blade Fuse Holder

Accepts standard car type blade fuses.
Supplied with heavy duty cable in a loop.
Simply cut and join to existing cable.
• Low volt DC only



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	SZ-2040	\$2.95	\$2.60	\$2.30

30A Panel Mount Blade Fuse Holder

Panel mount for auto or marine applications. Takes standard blade fuses, rated for 12VDC 30A max.
• Cover included



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	SZ-2046	\$3.95	\$3.45	\$3.15

30A In-Line Blade Fuse Holder with Failure Lamp - Water Resistant

These accept ordinary blade fuses and have an integrated lamp that will light up when the fuse blows, making it easy to find the offending fuse. This is especially useful if the fuse is in a difficult or crowded location. They are supplied with 110mm leads and available to suit standard blade and mini-blade fuses.

- 30A max rating
- Ideal for circuits up to 32VDC



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard	SZ-2042	\$4.95	\$4.45	\$3.90
Mini Blade	SZ-2043	\$4.95	\$4.45	\$3.90

30A Blade Fuse Holder with Screw Terminals

This blade fuse holder with in-built screw terminals provides a simple wiring solution to situations where circuit protection is required.

- Current: 30A maximum
- Dimensions: 35(L) x 32(W) x 6(D)mm

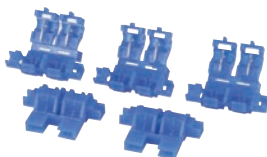


▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 30A	SZ-2044	\$5.95	\$5.50	\$4.75

20A Self Crimping Blade Fuse Holder Pack

These are very simple blade fuse holders to install. The self crimping feature is easy to use and saves on installation time. No wire stripping or twisting required. No special tool required; just push in the wire and squeeze.

- Dimensions: 35(L) x 35(W)mm while open



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 20A Pack of 5	SZ-2049	\$3.95	\$3.55	\$3.15

30A Waterproof Blade Fuse Holder with Long Transparent Cover

Quality transparent waterproof blade fuse holder. They are long enough to accept the circuit breaker blade fuse replacement models. The transparent cover allows you to inspect if a manual c/b has tripped, or able to see if an LED fuse has illuminated. This fuse holder provides extra protection against water and dust, ideal for marine applications.

- Dimensions: 65(L) x 25(W) x 15(D)mm



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 30A Waterproof	SZ-2047	\$6.95	\$6.25	\$5.50

30A Stackable Blade Fuse Holder (In-Line Style)

These fuseholders accept standard blade fuses. They slide together if more than one is required, so you could have a bank of these mounted in your car. They have a cap over the front which makes them look very neat and tidy.

- Handle 30 amps.
- Supplied with a wire loop - can be cut to suit
- Low volt DC only
- Dimensions: 41(L) x 24(H) x 10(W)mm



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 30A	SZ-2045	\$3.95	\$3.45	\$3.15

6 Way Automotive Fuse Box

Fits six standard car blade fuses.
Fibreglass reinforced nylon base with splashproof polycarbonate cover.

- 32VDC max
- 15A/circuit max
- 45A/block max
- 6.3mm QC terminals
- Dimensions: 112(L) x 46(W) x 40(H)mm



▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 6 Way	SZ-2002	\$12.95	\$11.35	\$10.35

10 Way Blade Fuse Block with LED Indicators

Perfect for automotive or marine applications. Features a common supply rail and includes a removable protective cover and LED indicators for each fuse.

- 10 way
- Dimensions: 95(L) x 85(W) x 36(H)mm
- Input: 100A Max
- Output: 30A Max Per Circuit



Fuses not included

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 10 Way	SZ-2008	\$24.95	\$22.45	\$19.95

10 Way Weatherproof Fuse Block with LED Indicators

This 10-way weatherproof fuse block is perfect for marine applications, keeping fuse and wiring connections well protected from corrosion. Each fuse socket has an LED indicator to give you quick indication of blown fuses, and there are also a number of slots to fit spare fuses. Designed for panel mount applications.

- Dimensions: 125(W) x 89(H) x 47(D)mm



Fuses not included (without cover)

▲ Type	Cat.	Qty 1+	Qty 10+	Qty 25+
Standard 10 Way	SZ-2001	\$34.95	\$31.45	\$27.95

Modular Design Negative Bus Bar & Blade Fuse Block

These modular design negative bus bar and blade fuse holder series are ideal for marine and auto applications.

These two models can be combined to make four popular fuse blocks depending on requirements.

Each fuse block enables 6 fused circuits; mount two units neatly together to enable 12 fused circuits, in addition you can mount the 12P negative bus bar to either option just mentioned or use it alone as required. See our website for images of how the system works. These fuse blocks come with blown fuse indication LEDs and transparent cover with recessed areas for label stickers.

The assembly process is quite easy and can be done using the supplied instruction manual.

- Accepts automotive blade fuses (ATP/ATC/ATO)
- Modular design saves shelf space
- Transparent cover with recessed areas
- 60 pieces assorted label stickers set included
- Storage for 2 spare fuses (for each 6P blocks)
- LED indication for blown fuses



SZ-2011



SZ-2013

SPECIFICATIONS	SZ-2011	SZ-2013
Voltage rating	32VDC max	32VDC max
Amp rating per branch	30A (screw terminals)	30A (screw terminals)
Maximum cumulative Amp	100A per block	100A per block
Terminal stud size	M5 (3/16")	M5 (3/16")
Screw size	M4 (5/32") x 12pcs	M4 (5/32") x 6pcs
Dimensions	86(W) x 57(L) 41(H)mm	86(W) x 78(L) 41(H)mm

▲ Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
32VDC	SZ-2011	\$19.95	\$17.95	\$15.70
32VDC	SZ-2013	\$34.95	\$31.45	\$27.90

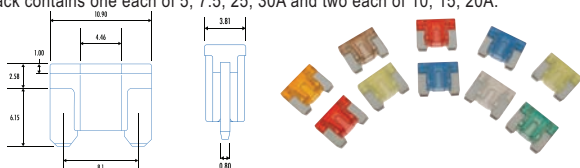
FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

STANDARD BLADE FUSES

Micro Blade Fuses - 10 Pack

Micro-blade fuses to suit newer model cars. The pack contains one each of 5, 7.5, 25, 30A and two each of 10, 15, 20A.



▲ Current	Multipack	Cat.	Qty 1+	Qty 10+	Qty 25+
5-30A	Pkt 10	SF-2146	\$9.95	\$8.75	\$7.75

Mini Blade Fuses

They look similar to the standard car blade fuses, except they are smaller. Used in new Holden Commodores, Falcons & more.

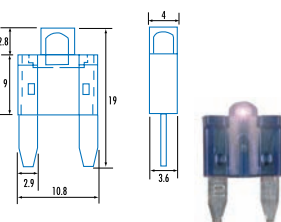
Quantity breaks for one type only



▲ Current	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
2A	Grey	SF-1909	\$0.95	\$0.85	\$0.75
3A	Pink	SF-1910	\$0.95	\$0.85	\$0.75
5A	Orange	SF-1912	\$0.95	\$0.85	\$0.75
7.5A	Brown	SF-1913	\$0.95	\$0.85	\$0.75
10A	Red	SF-1914	\$0.95	\$0.85	\$0.75
15A	Blue	SF-1915	\$0.95	\$0.85	\$0.75
20A	Yellow	SF-1916	\$0.95	\$0.85	\$0.75
25A	Clear	SF-1917	\$0.95	\$0.85	\$0.75

BLADE FUSES WITH FAILURE LAMP

Not your ordinary blade fuse, these have an integrated lamp which illuminates the moment the fuse blows. This makes finding that blown fuse a cinch, especially when the fuse is in a hard to get location, like under the car dashboard. They don't cost much either, so they are a very worthwhile investment.



Mini Blade Fuses with Failure Lamp

- Ideal for circuits up to 32VDC
- 19(H) x 10.8(L) x 4(W)mm approx

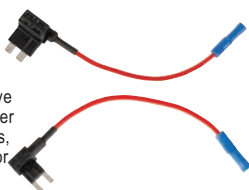
Quantity breaks for one type only

▲ Current	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
3A	Pink	SF-5070	\$1.30	\$1.15	\$1.01
5A	Orange	SF-5072	\$1.30	\$1.15	\$1.01
7.5A	Brown	SF-5074	\$1.30	\$1.15	\$1.01
10A	Red	SF-5076	\$1.30	\$1.15	\$1.01
15A	Blue	SF-5078	\$1.30	\$1.15	\$1.01
20A	Yellow	SF-5080	\$1.30	\$1.15	\$1.01
25A	Clear	SF-5082	\$1.30	\$1.15	\$1.01
30A	Green	SF-5084	\$1.30	\$1.15	\$1.01
5-30A	Pkt 6	SF-5085	\$6.95	\$6.25	\$5.50

WIRE TAPPED BLADE FUSES

Double Blade Fuse Socket Wire Tap

If you've ever wanted to install 12VDC devices near or around your dash but have been put off by the need to manually install new wiring and run it into your engine bay this is a great solution. Simply plug the fuse into a socket in your fusebox and you'll have an instant 12VDC power source. A great way to power headrest monitors, extra internal car lighting, gauges, and more. Outputs to a female bullet crimp connector. Comes in standard and mini blade fuse models



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
Double Blade Fuse Socket	SF-5115	\$4.95	\$4.45	\$3.90
Double Mini Blade Fuse Socket	SF-5125	\$4.95	\$4.45	\$3.90

WHO WOULD HAVE THOUGHT FUSES WERE SO CONFUS(E)ING!

Your head may be spinning from the range of fuses over the last few pages. Finding a replacement for a blown fuse is fairly straightforward, but working out the right fuse for you in a new installation can be daunting! No problem. Simply call into any Jaycar store or Stockist and our friendly staff will guide you all along the way. Happy wiring!

Gold Fuses, Fuse Holders & Distribution Blocks are also available - see page 252. Full range of Glass Fuses M205 3AG 5AG see page 253

Standard Blade Fuses

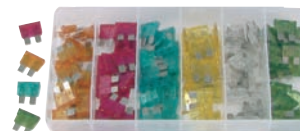


Quantity breaks for one type only

▲ Current	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
1A	Black	SF-2126	\$0.85	\$0.75	\$0.65
2A	Grey	SF-2127	\$0.85	\$0.75	\$0.65
3A	Pink	SF-2128	\$0.85	\$0.75	\$0.65
5A	Orange	SF-2130	\$0.85	\$0.75	\$0.65
7.5A	Brown	SF-2132	\$0.85	\$0.75	\$0.65
10A	Red	SF-2134	\$0.85	\$0.75	\$0.65
15A	Blue	SF-2136	\$0.85	\$0.75	\$0.65
20A	Yellow	SF-2138	\$0.85	\$0.75	\$0.65
25A	Clear	SF-2137	\$0.85	\$0.75	\$0.65
30A	Green	SF-2139	\$0.85	\$0.75	\$0.65
35A	Purple	SF-2143	\$0.85	\$0.75	\$0.65
40A	Orange	SF-2141	\$0.85	\$0.75	\$0.65

Automotive Fuse Pack

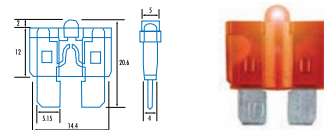
This kit contains around 120 standard size automotive fuses housed in a 6 compartment storage box. 20 x 5A, 10A, 15A, 20A, 25A & 30A fuses are included.



▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	SF-2142	\$23.95	\$21.35	\$18.95

Standard Blade Fuses with Failure Lamp

- Dimensions: 20.6(H) x 14.4(L) x 5(W)mm approx



Quantity breaks for one type only

▲ Current	Colour	Cat.	Qty 1+	Qty 10+	Qty 25+
3A	Pink	SF-5020	\$1.20	\$1.05	\$0.95
5A	Orange	SF-5022	\$1.20	\$1.05	\$0.95
10A	Red	SF-5026	\$1.20	\$1.05	\$0.95
15A	Blue	SF-5028	\$1.20	\$1.05	\$0.95
20A	Yellow	SF-5030	\$1.20	\$1.05	\$0.95
30A	Green	SF-5034	\$1.20	\$1.05	\$0.95
5-30A	Pkt 6	SF-5035	\$5.95	\$5.25	\$4.75

Blade & Mini Blade Pulling Tool

These handy fuse pullers make easy work of exchanging blown fuses. The device is suitable for both micro and mini blade fuses.

- Dimensions: 63(L) x 20(W) x 5(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Fuse Puller	TH-1973	\$1.95	\$1.75	\$1.55

ANL WAFER FUSES & HOLDERS

Gold ANL Wafer Fuses

These wafer fuses feature gold finish screw-down contacts for maximum current transfer and conductivity and are designed for really high current applications such as for car audio amplifiers, etc.

- Use with our SZ-2075 - Inline Wafer Fuseholder.
- 5 current ratings available.



AMP-KING

▲ Current	Cat.	Qty 1+	Qty 4+	Qty 10+
80A	SF-1990	\$8.95	\$7.95	\$6.95
100A	SF-1992	\$8.95	\$7.95	\$6.95
150A	SF-1995	\$8.95	\$7.95	\$6.95
200A	SF-1997	\$8.95	\$7.95	\$6.95
250A	SF-1999	\$8.95	\$7.95	\$6.95

ANL In-line Fuse Holder

A solid brass ANL inline fuse holder that is nickel plated. A great looking and functional fuse holder that is suitable for high end car audio installations.

- Dimensions: 95(L) x 50(W) x 36(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	SZ-2078	\$14.95	\$13.45	\$11.95

CIRCUIT BREAKERS - BLADE FUSE SIZE

A blade fuse that doesn't need replacing! This range of mini and standard size Blade circuit breakers are designed to directly replace standard or mini blade fuses. No need to fumble around in the dark looking for the blown fuse or to dig around in the toolbox for a suitable replacement. Choose between manual or automatic reset types. The manual type suit 12V-24V

systems and trip once the current is exceeded, and allow you to fault find the circuit before resetting. The auto reset type suits 12V systems and will re-establish power to the circuit once the current returns to normal levels. Available in Mini or Standard size, and come in similar colour coding to standard blade fuses.

Mini Blade Circuit Breakers - Manual Reset

- Voltage: Circuits up to 28VDC
- Body dimensions: 25(L) x 12.5(W) x 7(D)mm (excludes 1mm reset button)
- Total length including blades: 35mm (excludes 1mm reset button)



▲ Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Tan	Manual	SF-2352	\$5.95	\$5.50	\$4.75
10A	Red	Manual	SF-2354	\$5.95	\$5.50	\$4.75
15A	Blue	Manual	SF-2355	\$5.95	\$5.50	\$4.75
20A	Yellow	Manual	SF-2356	\$5.95	\$5.50	\$4.75

Mini Blade Circuit Breakers - Auto Reset

- Voltage: Circuits up to 14VDC
- Body dimensions: 25(L) x 12.5(W) x 6(D)mm
- Total length including blades: 35mm



▲ Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Tan	Auto	SF-2342	\$5.95	\$5.50	\$4.75
10A	Red	Auto	SF-2344	\$5.95	\$5.50	\$4.75
15A	Blue	Auto	SF-2345	\$5.95	\$5.50	\$4.75
20A	Yellow	Auto	SF-2346	\$5.95	\$5.50	\$4.75

Standard Blade Circuit Breakers - Manual Reset

- Voltage: Circuits up to 28VDC
- Body dimensions: 24(L) x 20(W) x 6(D)mm (excludes 1mm reset button)
- Total length including blades: 31mm (excludes 1mm reset button)



▲ Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Lt. Brown	Manual	SF-2330	\$5.95	\$5.50	\$4.75
7.5A	Brown	Manual	SF-2331	\$5.95	\$5.50	\$4.75
10A	Red	Manual	SF-2333	\$5.95	\$5.50	\$4.75
15A	Blue	Manual	SF-2334	\$5.95	\$5.50	\$4.75
20A	Yellow	Manual	SF-2335	\$5.95	\$5.50	\$4.75
25A	White	Manual	SF-2336	\$5.95	\$5.50	\$4.75
30A	Green	Manual	SF-2337	\$5.95	\$5.50	\$4.75

Standard Blade Circuit Breakers - Auto Reset

- Voltage: Circuits up to 14VDC
- Body dimensions: 24(L) x 20(W) x 6(D)mm
- Total length including blades: 31mm

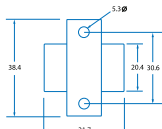


▲ Current	Colour	Type	Cat.	Qty 1+	Qty 10+	Qty 25+
5A	Lt. Brown	Auto	SF-2320	\$5.95	\$5.50	\$4.75
7.5A	Brown	Auto	SF-2321	\$5.95	\$5.50	\$4.75
10A	Red	Auto	SF-2323	\$5.95	\$5.50	\$4.75
15A	Blue	Auto	SF-2324	\$5.95	\$5.50	\$4.75
20A	Yellow	Auto	SF-2325	\$5.95	\$5.50	\$4.75
25A	White	Auto	SF-2326	\$5.95	\$5.50	\$4.75
30A	Green	Auto	SF-2327	\$5.95	\$5.50	\$4.75

CIRCUIT BREAKERS

Chassis Mount Auto Circuit Breakers

- Single pole thermal circuit breaker.
- Auto reset.



Heavy Duty Panel Mount Circuit Breakers

A range of heavy duty and high quality panel mount circuit breakers. The reset switch on these units are high grade and will not fail in short period unlike other units in the market. It has a protective plastic cover to prevent accidental shortage. Incorporates multi-wire gauge inputs and outputs, they are perfect for high end car audio installations, automotive wiring or solar installations. Terminals are platinum plated.



- Measures at 85(W) x 68(H) x 35(D)mm.

Looking for relays? See pages 238

▲ Current	Voltage	Cat.	Qty 1+	Qty 10+	Qty 25+
20A	12VDC	SF-4100	\$7.95	\$6.95	\$6.25
30A	12VDC	SF-4102	\$7.95	\$6.95	\$6.25
40A	12VDC	SF-4104	\$7.95	\$6.95	\$6.25
50A	12VDC	SF-4106	\$7.95	\$6.95	\$6.25
20A	24VDC	SF-4108	\$7.95	\$6.95	\$6.25

VEHICLE RELAYS

Universal LED Flasher Relays

Specifically designed to work with replacement low current LED indicator lights which may "hyper flash" when used with your cars standard flasher relay. This high frequency flashing will burn out the globe quicker. The minimum load is negligible (0.02A). Some cars will even display a burnt out bulb indicator even though it's working fine, this unit will remedy that issue.

- Nominal voltage: 12VDC
- Operating voltage: 11VDC-15VDC
- Flashing frequency: 90 times/minute +/-10%
- Silent operation
- Dimensions: 40(H) x 28(W) x 28(L)mm

UNIVERSAL 2-PIN LED FLASHER RELAY

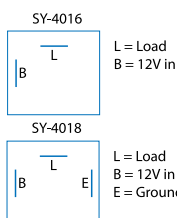
Switch current: 0.02A-10A

SY-4016

JAPANESE CAR 3-PIN LED FLASHER RELAY

Switch current: 0.02A-20A

SY-4018



▲ Type	Current	Cat.	Qty 1+	Qty 4+	Qty 10+
2 Pin	10A	SY-4016	\$14.95	\$13.35	\$11.70
3 Pin	20A	SY-4018	\$14.95	\$13.35	\$11.70

SHOW US YOUR BUILD COMPETITION

Paul, who shops at our Jaycar Underwood store built:



Funnily enough I built a power box similar to the one you pictured for our camping trips. It was always a pain leaving devices in the car etc for charging and/or running more than one cable from the car to the tent. This box solves that problem. The voltage meter lets me keep an eye on the battery.

CAR WIRING KITS

8GA Car Amplifier Wiring Kit

Complete wiring kit for installing an amplifier into your vehicle. Everything you need, down to the cable ties and screws. Save \$\$ on the individual parts.

- 6m x 8GA power cables
- 9m x 16GA speaker wire
- 5.2m stereo RCA interconnect
- 5.2m 18GA remote wire
- Gold plated fuse holder
- 40A fuse
- Loom tubing, gold plated crimp connectors, grommets, cable ties & screws



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
8G Wiring Kit	AA-0442	\$64.95	\$58.50	\$51.95

GOLD CAR SOUND CONNECTORS

Gold Plated High Current Cable Joiners

If you have ever tried to connect, crimp or solder 8GA or even 4GA cable you will understand how convenient these gold-plated brass connectors are. Each cable termination is via gold grub screws and joiner is supplied with small transparent insulating heatshrink tube.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Suit 8GA cable	HC-4065	\$7.95	\$6.95	\$6.25
Suit 4GA cable	HC-4064	\$7.95	\$6.95	\$6.25

Gold Plated Terminals

Supplied in pairs. 1 red and 1 black.

8GA QC GOLD CONNECTORS SMALL EYE

SPECIFICATIONS	PT-4560
Hole size	3.7mm
Cable hole diameter	4.8mm
Size including cover	35mm
Metal thickness	1mm



AMP-KING

▲ Per pair	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT-4560	\$2.75	\$2.45	\$2.15

8GA QC GOLD CONNECTORS LARGE EYE

Suits thinner cable (8GA):

SPECIFICATIONS	PT-4562
Hole size	8.4mm
Cable hole dia	4.8mm
Size including cover	42mm



AMP-KING

▲ Per pair	Cat	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT-4562	\$2.95	\$2.60	\$2.30

4GA QC GOLD CONNECTORS LARGE EYE

Suits Large Cable (4GA):

SPECIFICATIONS	PT-4564
Hole size	8.4mm
Cable hole dia	8mm
Size including cover	50mm
Metal thickness	1.5mm



AMP-KING

▲ Per pair	Cat	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT-4564	\$3.95	\$3.45	\$3.15

GOLD FUSED POWER DISTRIBUTION BLOCKS

Gold Power Distribution Block

This block will accept one 4GA wire in, and distribute to four 8GA out.

- Size includes mounting bracket



AMP-KING

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
63(L) x 50(W) x 25(H)mm	HC-4020	\$12.95	\$11.35	\$10.35

16 Way 100A Brass Distribution Bar

An ideal way to distribute high current paths. An 8mm stud provides for incoming cable and distribution is via 16 screw terminals with 7mm cable entry holes.

- Solid brass with high quality plastic bridge mounts
- Rated for 100A, suitable for high-power car audio power distribution or multiple earth links



AMP-KING

See our 8 way version on page 27

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
112(L) x 18(W) x 12(H)mm	SZ-2004	\$9.95	\$8.75	\$7.75

12 Piece Car Audio & Interior Removal Kit

Make the DIY job easier using this Kit. Prevent scratching and damaging your vehicle interior with specialised tools. Made from a strong ABS plastic. Includes various lever handles, ring hooks, straight rods, and plastic 'push lock' retainers to help remove car exterior and interior trim, dash and door panels. Fits most models.

- Lever handles supplied:
A: 190(L)mm, B: 210(L)mm,
C: 155(L)mm and D: 150(L)mm
- Straight hook: 230(L)mm/Curved hook: 250(L)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Removal Kit	TH-2339	\$19.95	\$17.95	\$15.70

2GA QC GOLD CONNECTORS EYE

Suits 2GA cable.

SPECIFICATIONS	PT-4565
Eye hole size	12.7mm
Cable hole dia.	9.6mm
Size including cover	60mm
Metal thickness	1.5mm



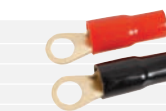
AMP-KING

▲ Per pair	Cat.	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT-4565	\$5.95	\$5.25	\$4.75

0GA QC GOLD CONNECTORS EYE

Suits thick cable (0GA)

SPECIFICATIONS	PT-4567
Hole size	8.4mm
Cable hole dia	11.8mm
Size including cover	60mm
Metal thickness	1.6mm



AMP-KING

▲ Per Pair	Cat.	Qty 1+	Qty 4+	Qty 10+
Red & Black	PT-4567	\$6.95	\$6.25	\$5.50

8GA QC GOLD CONNECTORS FORKED SPADE TERMINALS

Suits thinner cable (8GA):

SPECIFICATIONS	PT-4566
Hole size	3.7mm
Cable hole dia	4.8mm
Size including cover	33mm



AMP-KING

▲ Per pair	Cat	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT-4566	\$2.95	\$2.60	\$2.30

QC CONNECTORS FORKED SPADES

Standard quick connect lugs that fit speaker terminals etc.

- Cable hole diameter - 3.7mm



AMP-KING

▲ Per pair	Cat	Qty 1+	Qty 4+	Qty 10+
1 x Red & 1 x Black	PT-4568	\$2.50	\$2.21	\$1.95

GA = GAUGE OR STANDARD WIRE SIZE

TECH TALK

0GA: Outside dia of 15mm - actual cable is 45mm² 4GA: Outside dia of 10mm - actual cable is 20mm²
2GA: Outside dia of 12mm - actual cable is 35mm² 8GA: Outside dia of 6mm - actual cable is 8mm²

CYLINDRICAL FUSES & HOLDERS

Gold Fuseholder With Mounting Bracket

Gold contacts and will accept both 8GA & 4GA cable. A mounting bracket is incorporated. Length 80mm - accepts 5AG fuses.



AMP-KING

▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
5AG	SZ-2060	\$9.95	\$8.75	\$7.75

5AG Gold Fuses

These fuses suit our fuseholders shown here. Gold plated ends - and the inside conductor is also gold.

- Fuse size 38(L) x 10(Dia)mm



AMP-KING

▲ Current	Cat.	Qty 1+	Qty 4+	Qty 10+
20A	SF-1970	\$2.25	\$1.95	\$1.80
30A	SF-1972	\$2.25	\$1.95	\$1.80
40A	SF-1974	\$2.25	\$1.95	\$1.80
50A	SF-1976	\$2.25	\$1.95	\$1.80
60A	SF-1978	\$2.25	\$1.95	\$1.80

RELAYS

Multi Channel Remote Control Relay Boards

Add remote control functions to a new project or existing installation with these handy remote control relay boards. Available with 2 or 4 channels, each output relay is controlled by a separate button on the key fob controller. Each channel can be set to momentary or latching mode allowing you to customise the setup to suit your application. Operating on the robust 433MHz band the key fob remotes work over distances up to 40m and feature rolling code transmitting for added security.

- Selectable momentary or latching mode for each channel
- Transmission frequency: 433MHz
- Transmission range: 40m max
- Operating Voltage: 12VDC
- Relay contact rating: 28VDC 10A max / 250VAC 5A max

2 CHANNEL REMOTE CONTROL RELAY BOARD

- Current draw: 50mA
- Board dimensions: 85(L) x 61(W) x 20(H)mm
- Remote dimensions: 51(L) x 34(W) x 13(D)mm

Cat. LR-8855

SPARE 2 CHANNEL KEY FOB CONTROLLER

Cat. LR-8856

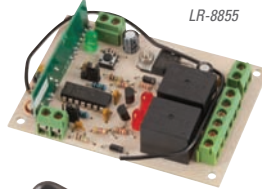
4 CHANNEL REMOTE CONTROL RELAY BOARD

- Current draw: 80mA
- Board dimensions: 90(L) x 73(W) x 20(H)mm
- Remote dimensions: 63(L) x 40(W) x 13(D)mm

Cat. LR-8857

SPARE 4 CHANNEL KEY FOB CONTROLLER

Cat. LR-8858



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
2 Channel RC Relay Board	LR-8855	\$49.95	\$44.95	\$39.95
2 Channel Keyfob	LR-8856	\$16.95	\$14.95	\$13.45
4 Channel RC Relay Board	LR-8857	\$69.95	\$62.95	\$55.95
4 Channel Keyfob	LR-8858	\$19.95	\$17.70	\$15.70

12V 60A Wireless Lighting Controller

This extremely useful lighting controller gives you wireless control over your light bars, driving lights, caravan lights and any other 12V powered device. 8 output channels over two zones provides the ability to switch lights on and off at the touch of a button. The two main (green and blue) zones each have 4 outputs for up to 20, 5, 3.5, and 1.5A output respectively. Total power load is up to 60A (that's a lot of light bars!). The controller is fused for safety, so you can connect it straight to your vehicle battery, and your light bars to the controller - simple!

Lights are quickly connected into the screw-down terminals, and the control box has mounting tabs for secure mounting in your vehicle.

SPECIFICATIONS	MS-6210
Max Power Output	12VDC @ 60A
Rated Input Voltage	12VDC
Working Voltage	11-15VDC Input
Low Voltage Protection	9.5VDC +/- 0.3VDC
Remote Control Battery	12V A23 Alkaline (included)
Wireless frequency	433MHz
Dimensions	135(W) x 132(D) x 35(H)mm (Excluding Cables)



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
8 Channel	MS-6210	\$99.95	\$89.95	\$79.95

AUTOMOTIVE TEST EQUIPMENT

Self Powered Round LED Voltmeter 5-30VDC

Quite possibly the easiest way to monitor your battery voltage, or the voltage in any DC powered system. Simply wire up to a positive and negative DC power source of 5-30VDC, and the voltmeter tells you the voltage (taking power from the DC source to operate). Supplied with a panel mount and a surface mount "hood". Connection is via 6.3mm spade terminals.

- Voltmeter: 36(Dia) x 26(D)mm
- Panel mount: 60(W) x 42(H)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm

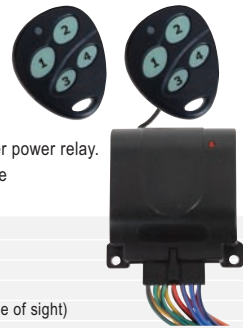


▲	Cat.	Qty 1+	Qty 5+	Qty 10+
LED Voltmeter	QP-5582	\$22.95	\$20.35	\$18.35

Wireless 4 Ch Relay Receiver (12V Nominal Separation)

This unit, which can be operated with the 2 x remotes (supplied), will control up to 4 x relays in Normally Closed or Normally Open configuration as either Momentary or Latched operation (the relays are built-in to the receiver). The relay contacts are rated at 5A at 14VDC. If higher voltage or higher power (or both) switching is needed, simply get these relays to operate a higher power relay.

Strictly speaking for simple control applications, the LR-8824 is all you need.



SPECIFICATIONS	LR-8824
Power input	10 - 15VDC
Current draw	350mA max
Standby current	<10mA
Transmission distance	30m typical (300m+ max line of sight)
Transmission frequency	433.92MHz
Transmitter features	SAW locked, rolling-code, water-resistant.
Learning capacity	250 remotes per module.
Outputs	4 x NO/NC contacts individually selectable as momentary or latched
Relay contacts	5A max at 14VDC
Receiver dimensions	68(H) x 60(W) x 25(D)mm, Antenna 150mm long when deployed

ADDITIONAL WIRELESS RELAY TRANSMITTER UNIT

This sophisticated addition is capable of controlling the LR-8824 with up to 4 control voltage inputs. You could, for example, have an input on channel 1, which would be from say a micro-switch connected to a window or a gate in a shed or barn. The LR-8819 will transmit a signal (100m minimum, up to 400m line-of-sight) to the LR-8824 to raise an alarm. It will also accept USB type voltage signals etc. It will accept positive or negative voltage commands (it will operate without the remote controls). The LR-8819 expands the operational flexibility of the LR-8824 system enormously and is essential for fixed system monitoring.

- Unit measures 68(H) x 60(W) x 25(D)mm
- Antenna is 150mm long when deployed.

Cat. LR-8819

SPARE REMOTE CONTROLLERS FOR LR-8824

These units will operate the wireless 4 channel relay receiver. They are not required if you use the fixed transmitter LR-8819.

Cat. LR-8829



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Wireless 4 Channel Relay Receiver	LR-8824	\$99.95	\$89.95	\$79.95
Additional Wireless Relay Transmitter	LR-8819	\$44.95	\$39.95	\$35.95
Spare Remote	LR-8829	\$24.95	\$22.35	\$19.70

6 Way Membrane Switch Panel with Relay Box

An ultra compact 6 way 12VDC touch control panel to control devices in automotive, camping, or marine applications. It features an ultra thin and flexible membrane switch panel with almost no mounting depth requiring only a very small cut-out. The 6 buttons on the switch panel control 6 relays in the separate control box for switching on/off any connected devices with ease, with the switch panel connecting to the control box with an included 1m long ribbon cable. This gives you a completely waterproof (IP67) switch panel, with all the wiring taken care of behind your dash/panel, resulting in a neat and unobtrusive 6 way switch interface.

- IP67 rating on the switch panel
- Built-in resettable fuses



SPECIFICATIONS	SP-0900
Max current	10A per channel, 35A total
Touch Panel Dimensions	70(L) x 63(W) x 1(H)mm
Membrane Control Box Dimensions	135(L) x 90(W) x 33(H)mm



▲	Cat.	Qty 1+
Switch Panel	SP-0900	\$69.95

Dual Battery LED Voltmeter

Monitors two power sources at once - ideal for dual battery installations. Includes flush panel-mount and surface-mount hardware. Voltage range is 10-60VDC, so it's suitable for some higher voltage (eg, 48V) solar installations too, to potentially monitor PV and battery voltage simultaneously.

- Operating Voltage: 10-60VDC
- Dimensions: 49(D) x 35(Dia.)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
2 x LED Voltmeter	QP-5583	\$29.95	\$26.95	\$23.95

AUTOMOTIVE TEST EQUIPMENT (CONTINUED)

Panel/Surface Mount LED Voltmeter & Ammeter

Quite possibly the easiest way to monitor battery voltage and current draw on your van, RV or boat. Simply follow the included wiring diagram to measure 5-30VDC, and 0 to 10A DC. Supplied with a panel mount and a surface mount "hood". Connection is via three 6.3mm spade terminals (current shunt built-in).

- Volt/Current Meter: 36(Dia) x 40(D)mm
- Panel Mount: 60 (W) x 42 (H)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
Volt & Amp Meter	QP-5584	\$39.95	\$35.95	\$31.95

LED Voltmeter 5-30VDC with Bar Graph

A quick and simple way to monitor the battery voltage in a vehicle, this voltmeter simultaneously shows the voltage numerically and on a bar graph. Simply wire up to a DC power source between 5-30VDC, and the blue LED voltmeter displays the voltage. The colour coded LED bar graph shows the voltage level on a scale from 11.3 to 13.2 volts, optimal for vehicle battery condition. Supplied with a panel mount and a surface mount "hood". Connection is via 6.3mm spade terminals.

- Voltmeter: 36(Dia) x 26(D)mm
- Panel mount: 60(W) x 42(H)mm
- Surface mount hood: 55(W) x 80(L) x 50(H)mm



	Cat.	Qty 1+	Qty 5+	Qty 10+
Voltmeter	QP-5589	\$39.95	\$35.95	\$31.95

Cigarette Lighter Battery Monitor

Check the voltage output of your car's battery quickly and easily. Simply plug this handy voltmeter into the cigarette lighter socket and get an instant readout of the electrical system's voltage.

- Display resolution: 0.1V
- Accuracy: +/- 2%
- Operating voltage: 8 - 30VDC



	Cat.	Qty 1+	Qty 5+	Qty 10+
Battery Monitor	QP-2220	\$19.95	\$17.95	\$15.95

12V Car Voltage, Alternator & Temperature Display

Plugs into the car's cigarette lighter socket to display the car's battery voltage and inside temperature. An audible and visual alarm can be set to trigger when the car's battery voltage dips too low, which could save you from breaking down in the middle of nowhere with a dead car battery. The display features a tri-coloured LED to show the battery status and electrical system status at a glance. Stylish modern design allows for easy dash mounting. Celsius or Fahrenheit temperature display



	Cat.	Qty 1+	Qty 3+	Qty 6+
Temperature Display	XC-0117	\$54.95	\$49.45	\$43.95

Compact Tyre Pressure Gauge

Tyre wear is exaggerated when your tyre pressure isn't kept at the manufacturers recommendations. Now you can check your tyre pressure before you set off with confidence. Simply push onto the valve, press the button, and presto! Your pressure is displayed on the screen. It couldn't be easier!

- Air Pressure Units: psi, bar, kPa, kgf/cm²
- Battery: 1 x LR44 Button Cell (Included)
- Dimensions: 42(W) x 98(H) x 26(D)mm, 48g



	Cat.	Qty 1+	Qty 3+	Qty 6+
Tyre Pressure	QP-2285	\$14.95	\$13.45	\$11.95

Tyre Pressure Gauge with Deflation Monitoring

Keeping your tyre pressure in check is important for maximising the life of your expensive tyres. But if you're travelling on sand or muddy terrain, or 4WDing in general, you often want to reduce pressure in the tyres to maximise your overall footprint and stability. Sure, you can grab a stick and manually deflate the tyres, but who wants to do that! Use this gauge and it will show current pressure while it deflates, so you can stop at any time! Also helps prevent over-deflation of tyres! Also features a bright LCD and LED torch to help you see what you're doing.

- Measurement Range: 5-100psi
- Units of Measurement: psi, bar, kPa
- Batteries: 2 x CR2032 Button Batteries (Included)
- Dimensions: 33(W) x 150(H) x 36(D)mm, 81g



	Cat.	Qty 1+	Qty 3+	Qty 6+
Tyre Pressure	QP-2287	\$29.95	\$26.95	\$23.95

Cigarette Plug Alternator / Battery Monitor

Having car batteries or alternators diagnosed and fixed can be unnecessarily expensive, both sit firmly in the realm of DIY. Replacing an alternator can cost up to \$300, when in fact all that may need to be replaced is a \$20 voltage regulator. This device will help you diagnose the source of your cars electrical problems and potentially save you a lot of money. It simply plugs into your car's cigarette lighter socket and will present you with alternator and battery status. For full specifications see our website.



	Cat.	Qty 1+	Qty 3+	Qty 6+
Alternator/Battery Monitor	PP-2142	\$9.95	\$8.75	\$7.75

Low Voltage Circuit Tester 6, 12, 24 Volts

Looks like a neon test screwdriver but instead of a blade on the end this tester has a probe and a 28" lead which clips to ground. Suitable for 6/12/24 volts for use on cars, trucks, boats, etc.



See our Wireless Tester on page 192

	Cat.	Qty 1+	Qty 3+	Qty 6+
	TD-2049	\$3.95	\$3.45	\$3.15

3 - 28V Pro Grade Automotive Tester

This professional grade cordless voltage tester is designed for used on modern cars. The voltage tester detects from 3 to 28 volts. It will light up and buzz when positive voltage is detected. Made from rugged chrome metal construction it is safe to use with ECMs, air bags, sensors, transducers etc. The circuit tester does not require a ground wire or clip, so it is easy to check in hard to reach places. A probe is supplied with a V-Groove tip to make piercing wire insulation safe. N size battery included (replacement batteries use SB-2346).



	Cat.	Qty 1+	Qty 3+	Qty 6+
Auto Tester	QP-2212	\$16.95	\$15.25	\$13.55

Battery, Charger & Alternator Testers

These handy devices quickly indicate the condition of your car or truck battery, charger or alternator. They use 3 LEDs to indicate battery and charge under engine on/engine off conditions. Compact and lightweight, they include 600mm leads with crocodile clips, and an inbuilt magnet to secure the unit while taking measurements.

- Dimensions: 120(L) x 33(W) x 20(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC Tester	QP-2258	\$12.95	\$11.35	\$10.35

Automotive Multi-Function Circuit Tester with LCD

Designed to test the electrical system of an automotive vehicle running on 12V or 24V. One of the great features is being able to activate components with positive or negative without using a jumper wire. To top it all off the easy to read LCD is backlit so it's perfect for the dark crevices of an engine bay.

All the features of a brand name unit at a fraction of the price. For full specifications see our website.

- Works on 12 or 24V systems
- Dimensions: 240(L) x 78(H) x 40(W)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Auto Tester	QM-1494	\$64.95	\$58.45	\$51.95

Digital Tachometer

This easy-to-use hand-held digital tachometer measures up to 99,999 RPM and features a large 5 digit LCD, laser pointer, low battery indicator, and memory recall for the last displayed value, minimum value, and maximum value. It also features a DC socket for mains power (5VDC at 50mA). It can also be switched to measure either actual RPM or total revolutions. Supplied with carry case and 600mm reflective tape marks.

SPECIFICATIONS	QM-1448
Display	2000 count
Test range	2.5 to 99,999 RPM
Basic DC accuracy	0.5%
Sampling	0.5 sec (over 120RPM)
Range select	Autoranging
Detection distance	50 to 500mm
Power consumption	50mA approx.
Batteries	4 x AA batteries (included)
Dimensions	160(H) x 72(W) x 37(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Tachometer	QM-1448	\$79.95	\$71.95	\$63.95

CAR DISPLAYS

LCD GPS Speedometer

More accurate than mechanical speedometers, the GPS speedometer works independently of the vehicle so it is not subject to factors such as tyre pressure, circumference, diff ratio, etc. This wireless unit is also safer to use on the road as the big LCD display can be mounted on the windshield and allows you to check speed without having to take your eyes off the road. You can also take this anywhere, use it on your boat, ATV or bike. Supplied with suction mount holder, USB cable and cigarette lighter charger.

- Selectable mph or km/h
- 2" Large digit display
- Rechargeable via USB, 5V/500mA
- Dimensions: 67(W) x 51(H) x 25(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
GPS Speedometer	LA-9025	\$99.95	\$89.95	\$79.95

Versatile Automotive LED Display Module for Cars

This versatile module will allow you to monitor the battery voltage, the airflow meter, or oxygen sensor in your car. It features a 10 LED indicator that illuminates in response to the measured voltage so you can see if your O2 sensor is causing your car to run too rich or too lean. Preset 9-12V, 0-5V or 0-1V ranges, complete with fast response time, high input impedance and auto dimming for night time driving.



SPECIFICATIONS	AA-0375
Power	12VDC
Dimensions	81(L) x 52(W) x 21(H)mm

	Cat.	Qty 1+
LED Display Module	AA-0375	\$11.95

Fuel Mixture Display Module for Cars

This very simple module will allow you to monitor the fuel mixtures being run by your car. This type of sensor is also known as an E.G.O. (exhaust, gas, oxygen) monitor. You can use it as a tuning tool, to help in vehicle modification or simply to see the behaviour of the engine control module. Indication is via 10 LEDs to show mixtures rich, lean and normal. The circuit connects to the EGO sensor mounted in the exhaust manifold & the cars battery.



SPECIFICATIONS	AA-0374
Power	12VDC
Dimensions	81(L) x 51(W) x 22(H)mm

	Cat.	Qty 1+
Fuel Mixture Display Module	AA-0374	\$11.95

IN-CAR POWER

12V to 5VDC Power Converter

Use this wiring kit to get rid of those unsightly and annoying power cables floating around your car dash that power your GPS, Dash cam or mobile device. Simply hardwire it to the 12V power fuse panel in your vehicle and plug the micro USB plug (micro USB adaptor also included) into the device you need to power. If your vehicle uses blade fuses then wiring can be made easier using our SF-5115 or SF-5125 blade fuse sockets, which patch into the fuse panel.

- Micro USB Plug (Mini USB adaptor included)
- 2.1A continuous current
- Cable length 1.3m



	Cat.	Qty 1+	Qty 3+	Qty 6+
	MP-3675	\$19.95	\$17.95	\$15.95

SHOW US YOUR BUILD COMPETITION

Jason, who shops at our Jaycar Joondalup store built:

“Dual reverse camera setup that I purchased from Jaycar on my 4WD ute. So I can see what's happening behind the vehicle because the canopy obstructs the view.”



OBDII Heads Up Display

This device obtains diagnostic data from your vehicles OBDII port & projects the information to your windscreen so you don't have to take your eyes off the road to view what's happening. Features a 3" multicolour LED display.

Information available includes:

- Speed
- Engine Speed
- Water Temperature
- Battery Voltage
- Fuel Consumption
- Low Voltage Alarm
- High Temperature Alarm
- Speed Alarm



	Cat.	Qty 1+	Qty 2+	Qty 4+
OBD II Hud	LA-9027	\$99.95	\$89.95	\$79.95

ENGINE MANAGEMENT

Speedo Corrector Module for Cars

When you modify your gearbox, diff ratio or change to a large circumference tyre, it may result in an inaccurate speedometer. This module alters the speedometer signal up or down from 0% to 99% of the original signal. With this improved model, the input setup selection can be automatically selected and it also features an LED indicator to show when the input signal is being received.



SPECIFICATIONS	AA-0376
Power	12VDC
Dimensions	63(L) x 46(W) x 25(H)mm

	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-0376	\$44.95	\$40.45	\$35.95

OBD2 Engine Code Readers

Modern car engines are controlled by computers which regulate engine performance. Sensors are connected to major components which constantly send data to the computer which then adjusts performance accordingly to ensure minimal emissions and optimal performance. Reading data from these computers helps mechanics pinpoint where problems may lie in car performance. You can also find out this information with this OBD2 engine code reader. It connects to your OBD2 port and will immediately interpret the information in the ECU (engine control unit). You can use this information to find faulty sensors which adversely affect performance, see if cylinders are misfiring, see how hot your engine coolant is, view engine RPMs and much more. Diagnosing and fixing certain problems yourself can save a lot of time and money. It's also fascinating to see how much engine information is readily available in modern cars.

2 Models available:

Viewable parameters*

- Vehicle Speed
- RPM
- Fuel Consumption
- Engine Coolant Temp
- Fuel Pressure



PP-2145



PP-2146



	Cat.	Qty 1+	Qty 2+	Qty 4+
Bluetooth Engine Code Reader	PP-2145	\$69.95	\$62.95	\$55.95
Wi-Fi Engine Code Reader	PP-2146	\$69.95	\$62.95	\$55.95

EVENT RECORDERS - DASH CAMS

A lot of the spectacular video seen on the TV News comes these days from devices called Event Recorders. They can be attached to the windscreen of your car, in a shop (acting as a security camera) or even in a bushland setting to record animal or intruder activity. They offer quality pictures &

draw very little power. They can be movement triggered or not. They have really changed the way we live in the world, as you never know when you are being electronically observed these days. Jaycar has a great range to suit every application & budget

EVENT RECORDERS					COMPARISON GUIDE					
		LCD Screen Size	Video Resolution	Camera Resolution	Lens Angle	GPS Function	G Sensor	Motion Detection	Collision Warning	Page
QV-3852		1.5"	1080p	12MP	140°		•			465
QV-3854		2.7"	1080p	12MP	140°		•			465
QV-3860		4.3"	1080p	8MP	170°		•	•	•	466
QV-3858		2.7"	1080p	12M	170°	•	•			466
QV-3870		N/A	1296p	4M	122°	•	•			466
QV-3856		2.7"	1296p	16M	170°	•	•	•	•	466

1080p Car Event Recorder with 1.5" LCD Display

A low cost car event recorder capable of recording in full HD. Record and watch in real time simultaneously. The camera records on to a microSD card (not included) and supports up to 32GB of capacity. G-Force sensor for automatic incident file separation recording, which is supported with a wide 140° camera angle. Powered by the supplied car cigarette adaptor which charges the built-in battery to keep the recording going if the power disconnects. Ideal for fleet vehicles, taxis and for those searching for assurance on the roads.

- Supplied with USB cable, car charger, windscreen mount and user manual.

SPECIFICATIONS	QV-3852
LCD	1.5" Colour
Lens	140° wide angle lens
Video Resolution	1080FHD 1920x1080 / 1080p 1440x1080 720p 1280x720 / WVGA 848x480
VGA	640x480 / QVGA 320x240
Video Format	AVI
Photo Format	JPEG
Photo Resolution	12M/10M/8M/5M/3M/2MHD/VGA/1.3M
Loop Cycle Recording	Off/1min/3min/5min/10min
Image Rotation	OFF/ON
Motion Detection	OFF/ON
Built-in Battery	Lithium battery 100mAh
Audio	Built-in microphone
Dimensions	67(L) x 43(W) x 32(D)mm



▲	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
1080p 1.5" Display	QV-3852	\$79.95	\$71.95	\$63.95

1080p Car Event Recorder with 2.7" LCD Display

Catch all the detail in 1080p high definition resolution. This car event recorder features a high quality, 140° wide angle lens takes that captures events and displays them on a 2.7" high resolution LCD. Integrated G-shock sensor separates event files. The seamless loop-cycle recording feature means you will never miss an event! Supplied with USB cable, car charger, windscreen mount and user manual. Supports microSD cards up to 32GB.

- Supports HDMI full HD video transmission.

SPECIFICATIONS	QV-3854
Sensor	5.0MP CMOS
LCD	2.7" Colour
Lens	140° wide angle lens
Video Resolution	1080FHD 1920x1080 / 1080p 1440x1080 720p 1280x720 / WVGA 848x480 VGA 640x480 / QVGA 320x240
ISO	Auto/100/200/400
Video Format	MOV (H.264)
Photo Format	JPEG
Photo Resolution	12M/10M/8M/5M/3M/2MHD/VGA/1.3M
Loop Cycle Recording	Off/1min/3min/5min/10min
Image Rotation	OFF/ON
Motion Detection	OFF/ON
Built-in Battery	Lithium battery 500mAh
Audio	Built-in microphone
Dimensions	114(L) x 47(W) x 33(D)mm



▲	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
1080p 2.7" Display	QV-3854	\$139.00	\$124.95	\$110.95

EVENT RECORDERS - DASH CAMS (CONTINUED)

1080p Car Event Recorder in Rear Vision Mirror

This unit is basically a wide-angle rear vision mirror which clips over your existing mirror. It features a cool blue anti-glare tint. Built into this unit is a full 1080p full HD event recording camera. It has IR night vision, motion detection recording (saves a separate recording if your car is hit), emergency file lock and more.

Across the bottom of the unit are the control buttons. When you are ready to review the video, a 4.3" LCD screen is illuminated in the mirror area. The display only comes on when required and is therefore not a distraction when in normal driving mode. When activated, you can watch live real time view (which of course you can also do by looking through the windscreen!) or playback of recorded video.

This product is fantastic if someone tries to make a fraudulent claim on you. It can repay itself almost immediately in these situations.

- 1080 full HD recording
- IR illumination
- Includes power and USB leads
- G sensor
- Memory capacity expandable to 32GB (microSD card available separately)
- Loop recording
- Time and date display
- Mirror dimensions: 315(W) x 85(H)mm



▲	Cat.	Qty 1+
1080p 4.3" Display	QV-3860	\$149.00

1080p Dash Camera with GPS

Recording incidents on the road has never been easier, simply set and forget. The on-board GPS records location while the full high definition 1080p camera provides clear video of any incidents. The ultra-wide 170° lens provides an ultra-wide viewpoint to maximise coverage. The large 2.7" rear screen gives easy access to all on-screen controls and video review, with simple operation using the on-board buttons. Powered by the included cigarette lighter or USB plug for flexibility, it's mounted to your windscreen using the included suction-cup mount.

SPECIFICATIONS	QV-3858
Video Resolution	1080p @ 30fps Max.
Photo Resolution	12 Megapixel Max
Screen	2.7" TFT LCD
Lens	170° A+ HD Wide Angle
File Format	Video: MOV, Photo: JPG
Memory Compatibility	Up to 32GB microSD
Battery	Li-ion 400mAh
Power	5VDC @ 1500mA
Dimensions	104(W) x 33(D) x 47(H)mm (Excluding Suction Mount)



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	QV-3858	\$199.00	\$179.00	\$159.00

1296p Event Camera with GPS for Bikes

Just as dash cams have become popular with drivers, there is now an option for motorbikes and cyclists. This fully self-contained rechargeable unit will record for up to 2hrs continuously, and is IPX5 waterproof rated to take whatever weather you're riding in. It includes a GPS to record your position, a quick-release mount for no-fuss recharging, and records to your favourite microSD card up to 32GB. It includes optional audio recording, and a huge 122° viewing angle to help make sure everything is in view.

- Super HD Video
- IPX5 Waterproof
- Rechargeable Battery

SPECIFICATIONS	QV-3870
Resolution	1296p @ 30fps / 1080p @ 30fps
Video Bit-Rate	Average 20Mbps
Photo Format	JPG Full HD 1920 x 1080
Static Photo Ratio	16:9
Pixel Size	4.1 megapixel
Lens Aperture	f1.8
Battery	1130mAh Li-Po
Memory Card	Supports up to 32GB microSD/SDHC
Ingress Rating	IPX5
Dimensions	47(W) x 70(D) x 50(H)mm, 85g



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
1080p	QV-3870	\$249.00	\$219.00	\$199.00

1296p Super HD Car Event Recorder with GPS

Our highest quality Car Event Recorder yet with 4.0M CMOS sensor delivering 30% more pixels than Full HD. Combined with an 170° view angle ultra-wide and F1.8 ultra-bright lens, this device captures every single detail of your journey clearly and smoothly, even at night! The superior image quality is also matched by the versatility of features. This device is equipped with GPS so speed, location and route of your trips can be pinpointed on Google Map via the supplied software. G-Sensor and motion detection comes standard to allow automatic recording. It even serves as a safety unit with the latest Lane Departure Warning System (LDWS) and Forward Collision Warning System (FCWS) to alert driver in dangerous situations. In fact, these warning systems are so effective in addressing driver errors, distraction and drowsiness that many countries are already considering making them mandatory.

Footages can be monitored on the 2.7" LCD screen, or on a larger screen via the mini HDMI port. High capacity microSD card up to the size of 64GB are supported, and loop recording function means you will never have to worry about running out of space.

Please note software is loaded onto the device. Updated software is available via our website

SPECIFICATIONS	QV-3856
Wide FHD	2560 x 1080p / 30fps
Super HD Resolution	2304 x 1296p / 30fps
FHD	1920 x 1080p / 60fps
Sensor	4.0M CMOS Sensor
Lens View Angle	170°
Lens Aperture Size	F 1.8
Photo Resolution	16M
GPS	Yes
G-Sensor	Yes
Motion Detection	Yes
Interface	USB/HDMI



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	QV-3856	\$249.00	\$225.00	\$198.95

WIRELESS REVERSING CAMERA KITS

REVERSING CAMERAS				COMPARISON GUIDE	
	QM-3797	QM-3852	QM-8046	QM-3856	QM-3742
					
LCD Screen Dia.	3.5"	4.3"	7"	4.3"	7"
Camera Type	Wireless	Wireless	Wireless	Wireless (Long Range)	Wired
Cameras Supplied	2	1	1	1	1
Camera Channels	2	2	2	2	2
Built-in IR LEDs		•	•	•	•
Power Input	12V	12/24V	12/24V	12/24V	12/24V
Page	467	467	467	468	468

2.4GHz Wireless Reversing Kit with Dual Cameras & LCD Monitor

Reversing cameras can be tricky to install, especially running video and other cables under the dash to the display unit. Like a GPS, the LCD on this unit plugs straight into your car's cigarette lighter socket and receives video via 2.4GHz wireless from the reversing camera.

- Supplied with two cameras
- Camera can be mounted internally to fire through the rear window or externally on the number plate or bumper
- Transmission range is up to 50m

SPECIFICATIONS	QM-3797
LCD	3.5"
Power	12VDC
Range	Up to 50m
Image Sensor	1/4" Colour CMOS
Effective pixels	320 x 240 pixels
Camera Resolution	640 x 480 pixels
Frequency	2414MHz, 2468MHz
Channel	V1/V2 switching
TV System	PAL/NTSC
Dimensions	110(W) x 77(H) x 22(D)mm



1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲ 2.4GHz Dual Reversing Camera & Display Kit	QM-3797	\$229.00	\$205.95	\$182.95

2.4GHz Digital Wireless Reversing Camera with 4.3" LCD

A robust, easy to install digital wireless reversing camera kit to give you a clearer view of your vehicles rear end. Since it is a wireless system it greatly minimises the need for cabling. The 4.3" LCD can be suction mounted to your windscreen and is directly powered from the cigarette lighter socket. The rear camera has a mounting plate with 3M[®] adhesive backing for hassle free and secure attachment to your vehicle. Since reversing at night is potentially the most dangerous, the camera has been fitted with 6 x IR LEDs which allow clear nightvision. A great solution for protecting your car and those behind you. 2.4GHz Digital Wireless Reversing Camera for QM-3852 sold seperately.

SPECIFICATIONS	QM-3852
Suitable	For 12VDC & 24VDC systems
LCD	4.3" Resolution VGA 640 x 480
Power	8-30VDC White balance Auto
Range	Up to 50m Frame rate 30fps
Frequency	2.4GHz USB port 1.1 and above
Sensor type	CMOS SNRV CMOS sensor 50dB
Sensor size	1/4" TV System PAL/NTSC
View angle	105°
Dimensions	84(W) x 42(H) x 36(D)mm (Camera), 140(W) x 87(H) x 21(D)mm (Monitor)



1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲ 2.4GHz Digital Reversing Camera	QM-3852	\$229.00	\$205.95	\$182.95
Spare Camera	QM-3854	\$109.00	\$97.95	\$86.95

2.4GHz Digital Wireless Reversing Camera with 7" LCD Display

Utilising digital 2.4GHz wireless technology, this wireless reversing camera system offers up to 80m range with crystal clear picture quality and negligible video lag. Ideal for large vehicles with big blind spots such as trucks, buses, RV's, etc. The IP65 waterproof camera supplied comes fitted with IR LEDs for operation in low light conditions. Video is displayed on the slimline 7" LCD monitor, which has a quick latch bracket, so it can be easily removed & hidden away from prying eyes when not in use.

Additional cameras for system expansion are available - QM-8047.

SPECIFICATIONS	QM-8046
LCD	7" Effective pixels 640 x 480
Power	12 - 24VDC Frequency 2.4GHz Digital
Range	up to 80m Channels 2
Image Sensor	1/4" Colour CMOS TV System PAL
Dimensions	205(L) x 120(H) x 25(D)mm



1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲ Reversing Camera with 7" LCD Display	QM-8046	\$319.00	\$279.00	\$249.00
Wireless Infrared Camera	QM-8047	\$99.95	\$89.95	\$79.95

WIRELESS REVERSING CAMERA KITS (CONTINUED)

2.4GHz Digital Long Range Reversing Camera Kit

Confidently manoeuvre your caravan, truck, 4WD or trailer and avoid unseen or unexpected obstacles when reversing with this wireless camera kit. The 4.3" colour display and camera features signal stabilisation and processing for high speed observation of up to 100m range as standard reversing cameras will not provide enough distance to reach a caravan, truck or trailer. Prior to travelling, securely affix the camera in place and plug the monitor into your vehicle's 12V auxiliary power outlet, then pair them to adjust the camera to the preferred angle. You can pair up to two cameras with an additional camera (QM-3857) being placed on your car or 4WD

and one on your caravan or trailer to have a dual camera display or be viewed individually. The camera features infrared night vision, adjustable angle and waterproof housing to ensure it will cope in the harshest weather conditions. Includes suction cup mount & cigarette lighter plug power for the monitor.

- On-Screen Backup Guideline
- 12/24VDC Operation
- Infrared Night Vision

NEW
2017

CAMERA		MONITOR	QM-3856
Frequency	2.4GHz Digital	Frequency	2.4GHz Digital
Resolution	720 x 480	LCD	4.3"
Image Sensor	1/3" CMOS	Resolution	480 x 272
Lens Angle	110°	Range	Up to 100m
Infrared LEDs	6	Antenna	3dBi
Antenna	3dBi	Voltage Input	8-30VDC
IP Rating	IP65	Current Consumption	Up to 250mA
Voltage Input	8-30VDC	Dimensions	140(L) x 87(W) x 21(H)mm
Current Consumption	Up to 350mA		
Dimensions	84(W) x 42(H) x 36(D)mm		



1
YEAR
WARRANTY

	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
Reversing Camera Kit	QM-3856	\$319.00	\$279.00	\$249.00
Spare Camera to suit	QM-3857	\$139.00	\$124.95	\$110.95

WIRED REVERSING CAMERA KITS

Ultimate Rear-View System - Wired

This unit enables you to monitor the area to the rear of a bus, truck, caravan, RV etc, view a much wider field-of-view than any rear view mirror array and works in the dark with IR lighting. The system comes with a 7" (diagonal) LED display that has two video inputs, so you could (for example) have another camera monitoring, say bus passengers (camera extra). The rear vision camera is fitted with a SHARP (Japan) CCD device with 18 x IR LED's for night vision illumination. The housing of the camera is metal, IP65 and has a gymbal bracket. It can be mounted externally. The kit is supplied with 10m of pre-terminated connecting cable. A remote control for the monitor is also provided. In keeping with the professional status of the product, it will work from 12 or 24VDC.

Dimensions:

- Monitor 178 x 120 x 28mm
- Camera 74 x 48 x 65mm

SPECIFICATIONS	QM-3742
LCD	7"
Power	12/24VDC
Range	Wired
Image Sensor	Sharp
Camera Resolution	420 TV Lines
Frequency	Wired
Channel	2
TV System	PAL/NTSC
Dimensions	178(L) x 120(H) x 28(D)mm



1
YEAR
WARRANTY

	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
Reversing Camera with 7" Display	QM-3742	\$249.00	\$225.00	\$198.95
10m Camera Extension Lead	QM-3743	\$14.95	\$13.45	\$11.95

REVERSING & SIDE CAMERAS



QC-3530



QC-3534



QC-3532



QC-3536

SPECIFICATIONS	QC-3530	QC-3534	QC-3532	QC-3536
Sensor	PC7070	PC7070	PC7070	Sharp 1/4 CCD
Resolution	420 TV lines	420 TV lines	420 TV lines	420 TV lines
View Angle	120°	120°	120°	120°
Minimum Illumination	0 Lux	0.5Lux	0.5Lux	0.5Lux
IP Rating	IP67	IP67	IP67	IP67
Video out	1Vp.p. 75 ohm	1Vp.p. 75 ohm	1Vp.p. 75 ohm	1Vp.p. 75 ohm
Power Supply	9-12VDC	9-12VDC	8-12VDC	12VDC
Dimensions	18.5(Dia.)mm	26(Dia.)mm including bezel	22(W) x 15(Dia.)mm	

Flush Mount Mini Waterproof Camera for Cars or Trucks

Designed for use in vehicles to give drivers a clear view of car or truck blind spots. Reversing into tight spots, or parking in low light underground car parks is fraught with obstructions & potential accidents. Park your car with ease & avoid costly repair bills. Installation is very simple with the supplied 6m length wiring loom & hole saw drill bit.

	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
420TVL CMOS	QC-3530	\$49.95	\$44.90	\$39.90

Flush Mount CCD Rear Vision Camera

Utilising a CCD sensor for better image quality & low light performance. This waterproof IP67 reversing camera will provide clear video stream to avoid any potential accidents when reversing. Designed to mount flush on even surfaces. Supplied with a 6m wiring loom and a hole saw drill bit for that clean and professional installation.

	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
420TVL CCD	QC-3534	\$119.00	\$106.95	\$94.95

Colour CCD Wide Angle Waterproof Rear View Camera

The tiny camera is easily mounted with the attached mounting bracket and screws. Ideally it should be fixed to an area above your rear licence plate, or any area other suitable nearby area. The wide angle lens and minimum illumination of 0.5 Lux will give you a more than adequate view of potential hazards behind your vehicle. Supplied with a 6m wiring and video loom cable.

	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
420TVL CCD	QC-3532	\$49.95	\$44.90	\$39.90

Bus / Truck Camera with Infrared LEDs - CCD

The camera housing is constructed using Tough aluminium alloy and equipped with a black metal shield which helps deflect sun glare, rain and Dust. It is shock and vibration resistant and fitted with Infrared LEDs for night illumination. It is IP67 rated and suitable for heavy duty applications such as trucks, buses, RV's and caravans.

	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
420TVL CCD	QC-3536	\$119.00	\$106.95	\$94.95

CAR SECURITY

Steelmate Entry Level Car Alarm with Voice Function

An affordable car alarm that features voice feedback on alarm status and operational parameters such as open doors etc.

What you get:

- Electronic black box controller
- Shock sensor, Ignition cutout relay
- Speaker siren
- Wiring looms
- Bonnet pin switch
- Car charger for the remote controls
- Extra circuits for fuel and ignition cutout
- 2 x Code hopping remote control units, one with a built in torch!

Kit includes:

- Metallic water resistant 5-button transmitters
- Dedicated boot release button
- Voice warning (ON / OFF)
- Valet mode
- Anti-hijacking, emergency call & locating
- Emergency override

Also good for:

• Vans with expensive stuff in the back • Large enclosed trailers



DIY



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲ Car Alarm	LA-9003	\$129.00	\$115.95	\$102.95
Spare Remote	LA-9004	\$37.95	\$33.95	\$30.45
Spare Remote Car Charger	LA-9021	\$9.95	\$8.75	\$7.75

CENTRAL LOCKING

4 Door Remote Controlled Central Locking Kit with Kill Switch

Lock and Unlock your car doors from a distance without having to fumble around with keys. Includes outputs to flash the indicators for visual confirmation, as well as outputs for sunroof and window closers (where fitted). An additional security button can be installed to cut off the fuel pump to prevent the car being stolen. Supplied with 1 master actuator, 3 slave actuators, and control relay, two remotes with batteries, kill switch, hardware and wiring loom.

- Working voltage: 9 - 16VDC
- Frequency: 433.92MHz



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	LR-8842	\$89.95	\$80.95	\$71.95

Slave Door Lock Actuator

Door lock actuator used on passenger doors. Durable, waterproof and dustproof with Japanese mechanics, and supplied with universal mounting hardware. Wiring not included.

- Japanese Mabuchi motor
- Original Nylon and POM
- PTC overload protection
- Life cycle: 100,000 times
- Push/Pull force: > 4.0 kg
- Input voltage: 9 - 16VDC



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	LR-8813	\$12.95	\$11.35	\$10.35

Master Door Lock Actuator

Door lock actuator for Driver's door. Includes microswitch output to activate power lock relay LR-8818. Durable, waterproof and dustproof with Japanese mechanics. Supplied with universal mounting hardware. Wiring not included.

- Japanese Mabuchi motor
- Original Nylon and POM
- PTC overload protection
- Life cycle: 100,000 times
- Push/Pull force: > 4.0 kg
- Input voltage: 9 - 16VDC



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	LR-8815	\$14.95	\$13.35	\$11.70

4 Door Power Lock Kit

Add that touch of luxury to your car with this low cost 4 door central locking kit, so when you unlock the drivers door the other three doors will also unlock. It can be connected to car alarms with a negative triggering locking output, or used with our LR-8839 remote controller for keyless entry.

- Supplied with 1 master, 3 slave actuators, control relay, hardware and wiring loom.



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲ 4 Door Power Lock Kit	LR-8812	\$39.95	\$35.90	\$31.90

Remote Controlled Car Central Locking System

Upgrade to a remote keyless car entry with this system. On rainy or windy days where you need a quick entry, unlock your doors as you approach the car. The system is easy to install with 2 keyfob and comes with two remote keyfobs.

SPARE REMOTE CONTROL

Spare Remote Control for LR-8839 Central Locking System. Supplied with one 12V battery (For replacement batteries use our SB-2422.)



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲ Centre Locking System	LR-8839	\$49.95	\$44.90	\$39.90
Spare Remote	LR-8837	\$19.95	\$17.70	\$15.70

Car Boot / Hatch Release

This great little gadget installs on your boot or hatch lock so that unlocking simply involves pressing a button (supplied)! Solenoid comes with mounting bracket, wiring loom (fuse included), dash mount pushbutton switch and installation instructions.

- Solenoid Unit (including bracket): 95(L) x 43(D) x 58(H)mm
- Switch (on L bracket): 50(H) x 44(W) x 40(D)mm



	Cat.	Qty 1+	Qty 2+	Qty 4+
▲	LR-8834	\$39.95	\$35.90	\$31.90

KEYFOB

KeyFob Learning Remote 250 - 450MHz

A wider frequency range that includes some automatic garage door openers. Will learn up to 4 different codes and make your life a little easier by letting you control all your alarms with just one fob. A typical situation could be using the same remote for your car, your partner's car and the garage door with a spare button for the house alarm.

- Frequency: 250MHz to 450MHz.
- Supplied with A23 battery
- Not suitable for code hopping alarms



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 2+	Qty 4+
▲ Keyfob Remote	LA-8992	\$44.95	\$40.45	\$35.95

See page 438 for our Vehicle Tracker

TAMPER SWITCHES

Tamper (Pin) Style - 2 Pack

Low cost spring loaded switch, simply make to frame (or earth) when pin is released i.e. by operating car or cabinet door, etc. 57mm overall, 12mm pin travel. Bullet connector termination

▲	Cat.	Qty 1+	Qty 4+	Qty 8+
Pack of 2	LE-8775	\$5.95	\$5.25	\$4.75

Metal Tamper (Pin) Style - 2 Pack

Ideal for car bonnets, this heavy duty pin switch is nickel plated for protection from corrosion. The plunger is plastic and can be cut to suit the required length/depth. Supplied with locking nuts and star washer. The bezel's mounting depth is also adjustable. Termination is via a 6.4mm spade lug.

SPECIFICATIONS	LE-8776			
Length (main body)	38mm	Including plug & lug	70mm	
Shaft diameter	7.75mm	Fascia nut size	11mm	
Locking nut size	12mm	Travel (max)	13.5mm	

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2	LE-8776	\$7.95	\$6.95	\$6.25

STROBES

12VDC Waterproof LED Strobe Lights

LED strobes for security, alarm or emergency use. Low current consumption units are fully sealed and waterproof; suitable for outdoor alarm applications. Mounts with 2 x 5mm bolts.

• Dimensions: 70(Dia) x 45(H)mm

▲	Colour	Cat.	Qty 1+	Qty 4+	Qty 8+
	Blue	LA-5326	\$19.95	\$17.70	\$15.70
	Red	LA-5327	\$19.95	\$17.70	\$15.70
	Amber	LA-5328	\$19.95	\$17.70	\$15.70

12VDC LED Strobe Light with Magnetic Base for Cars

Designed to be mounted on to the roof for maximum visibility. Moulded curly cord with cigarette plug for power. Note: For off-road use only.

- 40 super bright, high intensity LEDs
- Cigarette lighter plug for power
- Heavy duty magnetic base for secure mount
- Dimensions: 95(H) x 130(Dia.)mm

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
12VDC	ST-3295	\$34.95	\$31.45	\$27.95

Dash Mount Flashing LED - 12V

With a metal bezel and a very bright 5mm LED, this flasher is excellent as a fake car alarm. Installed on your dash, thieves can be led to believe that your car is alarmed).

SPECIFICATIONS	LA-5082			
Bezel Dimensions	30(D) x 7(W)mm			
Face Diameter	11mm			
Operating Voltage	12V			
Wire Lead Length	400mm			

▲	Cat.	Qty 1+	Qty 10+	Qty 25+
	LA-5082	\$6.95	\$6.25	\$5.50

SIRENS

Waterproof Siren - 90dB

Suitable for cars, boat and truck applications.

SPECIFICATIONS	LA-8901			
Operating voltage	12V - 24VDC			
Sound output	>90dB			
Dust and waterproof rating	IP66			
Termination	Spade lugs			
Dimensions	50(L) x 40(Dia.) x 34.5(H)mm			

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA-8901	\$12.95	\$11.35	\$10.35

Mini Reverse Warning Siren 12/24VDC

Beeps when power is applied, and features a mute function that you can connect to the parker lights to mute the siren at night time if desired.

SPECIFICATIONS	LA-8904			
Operating voltage	9-30VDC			
Current consumption	<200mA			
Sound output	>90dB			
Dust and water resistance rating	IP65			
Termination	Fly leads			
Mounting hole	6.5mm			
Dimensions	55(Dia.) x 37.5(H)mm			

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA-8904	\$9.95	\$8.75	\$7.75

Metal Fascia Inset Pin Switch - 2 Pack

Inset pin switch with plated metal fascia. Suitable as a replacement door switch. The sturdy plunger can be cut to length. Termination via right angle 6.4mm spade lug.

SPECIFICATIONS	LE-8777			
Fascia	34.5 x 16.5mm			
Pin	27(L) x 8(dia)mm			
Depth behind fascia	15mm (not inc lug & pin)			
Overall depth	51mm			
Travel (max)	8mm			

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Pack of 2	LE-8777	\$7.95	\$6.95	\$6.25

Van Sliding Door Style

Double action sliding door switch, primarily designed for van doors and tailgates. Supplied with rubber mounting plates, screws, template stickers and installation instructions. Contacts are rated at a massive 20A @ 12V.

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
12VDC 20A Each	LE-8779	\$18.95	\$16.95	\$14.95

12/24VDC LED Strobe Light with Magnetic/Permanent Base

Keeping safe on a worksite, or attracting attention to your vehicle at an event - whatever your purpose - this multi-pattern strobe is versatile and couldn't be easier to install. Two strong magnets hold it firmly in place on your roof and a curly-cable to cigarette lighter plug means you can power it without any special wiring. Inside the protective plastic case are 24 high power amber LEDs - 6 banks of 4LEDs each to be precise. There are 10 different display patterns, so you can select the most attention-grabbing one for your situation. Modes include clockwise / anticlockwise rotation, side to side, fade in/out, and more. Two rubber feet on the bottom of the unit cover powerful magnets and protect your paintwork. If you prefer to mount it permanently however, they unscrew for a clean, flush mount. The cigarette lighter plug incorporates an on/off switch with LED power indicator, as well as a switch for selecting the display mode. Of course, please make yourself aware of any local laws for using external lighting on vehicles, on and off public roads.

- High power amber LEDs
- 10 selectable flash modes
- 12 or 24VDC powered
- Suitable for trucks too

Note: Press pattern button 0.5 seconds for next pattern.

SPECIFICATIONS	ST-3278			
Power	12 / 24VDC			
Cable	1m curly cable with cigarette lighter plug			
Mounting	Magnetic feet, or permanent screw mount			
Dimensions	280(W) x 165(D) x 62(H)mm (including mounting feet)			

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST-3278	\$129.00	\$115.95	\$102.95

Electronic Siren

Small sized - ideal for mounting in a cramped engine bay!

SPECIFICATIONS	LA-8908			
Operating voltage	12VDC			
Sound output	125dB.			
Power rating	20 watts			
Current draw	1.3 Amp.			
Dimensions	70(H) x 67(L) x 59(W)mm including brackets			

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA-8908	\$19.95	\$17.95	\$15.95

Six-Tone Car Alarm Siren with Back-Up Battery

This compact siren has a rechargeable back-up battery pack mounted inside the unit, so if the wires are cut, the siren will sound and the only way to disable the unit is to turn it off with a key. Internal batteries are kept on trickle charge so they are always fully charged. Supplied with 2 keys.

SPECIFICATIONS	LA-8912			
Power	20W			
Voltage	12VDC			
Impedance	10 ohm			
Output	118dB.			
Dimensions	100(L) x 61(W) x 57(D)mm including brackets.			

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	LA-8912	\$24.95	\$22.45	\$19.95

EXTERNAL LIGHTS & SPOTLIGHTS

500 Lumen IP68 Solid Mini LED Spotlight

Amazingly bright, completely shock and waterproof, and unbelievably compact LED spotlight that is an all-round solution for so many different applications. Use them as reversing lights or side lights on your 4WD, permanently mount them on your tinny as night fishing lights or nav lights, use them for deck lighting - we're sure you get the idea! Made from die cast aluminium alloy with an anodised polyester powder coat, 316 grade stainless steel hardware, a near unbreakable lexan polycarbonate lens, and featuring an IP68 rating and UV shielding, they are more than capable of handling whatever situation you throw them into. Operated from 10-36VDC. For off-road use only.

- IP68 waterproof
- Shock proof
- 50,000 hour life
- Instant ON/OFF

SPECIFICATIONS	SL-3916
Beam pattern	Spot
Beam distance	145m
Lumen output	500
Equivalent halogen lamp	35W
Input current	0.3A (12VDC), 0.16A (24VDC)
Operating temp	-40°C - 60°C
Dimensions (mounted)	70(H) x 40(W) x 55(D)mm



▲ Type	Lumens		Cat.	Qty 1+	Qty 2+
Spotlight	500	Each	SL-3916	\$49.95	\$44.95

720 Lumen LED Floodlights with Cree® LED

A cost effective waterproof, dustproof and shockproof lights suited to the rough demands of 4WD or marine lighting applications. The low profile design and provided mounting clips allow you to make a group of these lights mounted as a straight light bar or stacked on each other to create a light panel. For off-road use only.

- Housing: Durable alloy diecast

Stackable

SPECIFICATIONS	SL-3938
LED Life	Over 50,000 hours
Waterproof	IP67
Current draw	12V (0.6A), 24V (0.3A)
Voltage	9 - 60V (10W)
Lumens	720
Colour Temperature	6000K
Termination	Fly Leads
Dimensions	51(W) x 51(H) x 61(D)mm



▲ Type	Lumens		Cat.	Qty 1+	Qty 3+	Qty 6+
Floodlight	720	Pair	SL-3938	\$89.95	\$80.95	\$71.95

1,136 Lumen LED Vehicle Floodlight

Compact but powerful, it uses eight 1.5W Osram® LEDs to throw a huge, wide beam in front of you. A broad 50° angle gives you plenty of light spread, while still retaining up to 57m illumination range. Powered from 12-24VDC so they're suitable for trucks too, they're built tough. Protected against shock, water, and UV shielded, their powdercoated aluminium frame and stainless steel mounting hardware will go anywhere you do.

Due late May 2017

SPECIFICATIONS	SL-3931
Input	9-36VDC @ 12W
Lumens	1,136
Ingress Rating	IP68
Dimensions	128(W) x 51(D) x 90(H)mm (Excluding Cable)



▲ Type	Lumens		Cat.	Qty 1+	Qty 6+	Qty 12+
Floodlight-Rectangle	1,136	Each	SL-3931	\$39.95	\$35.95	\$31.95

2,272 Lumen LED Vehicle Floodlights

These are stunningly bright floodlights, with a massive 2,272 lumen output. Available in a round or square aluminium enclosure to suit your personal style, both styles encase the same LED array and produce the same light power. Built with 16 individual 1.5W Osram® LEDs for huge light output, they're shockproof, weatherproof, and UV shielded. Powered from 9-36VDC so they'll run on cars or trucks. Fitted with stainless steel mounting hardware.

Due late May 2017

SPECIFICATIONS	SL-3935	SL-3937
Input	9-36VDC @ 24W	9-36VDC @ 24W
Lumens	2,272	2,272
Ingress Rating	IP68	IP68
Dimensions	128(W) x 51(D) x 142(H)mm	128(W) x 51(D) x 152(H)mm



SL-3935



SL-3937



▲ Type	Lumens		Cat.	Qty 1+	Qty 6+	Qty 12+
Floodlight-Square	2,272	Each	SL-3935	\$59.95	\$53.95	\$47.95
Floodlight-Round	2,272	Each	SL-3937	\$59.95	\$53.95	\$47.95

1,733 Lumen Compact Solid LED Spot/Floodlight with Deep Optic Reflector

Super tough and compact LED spot/floodlights which can be bolted onto your 4WD, boat, car, off-road buggy or even for security use. Features a die cast aluminium alloy heatsink housing with an unbreakable polycarbonate front cover. Thanks to the deep optic reflector lens, the beam length on these lights is incredible for the lumen output. The spot light model can almost reach half a kilometre! Inside each model is a single next-generation 25W Cree MT-G LED, driven by high end PWM driver circuitry that protects the LED from over temperature and extends the operating life. Includes reverse polarity protection in case you make a junior error when wiring up! For off-road use only.

SPECIFICATIONS	BOTH
Beam pattern	Flood (SL-3932), Spot (SL-3930)
Beam distance	Flood (178m), Spot (490m)
Lumen output	1733
Equivalent halogen lamp	200W
Operating voltage	9-36VDC
Input current:	2.0A (12VDC), 1.1A (24VDC)
Operating temperature	-40°C to + 60°C
Dimensions	86(W) x 100(H) x 93(D)mm

SL-3930



SL-3932



▲ Type	Lumens		Cat.	Qty 1+	Qty 2+
Spotlight	1,733	Each	SL-3930	\$119.00	\$99.50
Floodlight	1,733	Each	SL-3932	\$119.00	\$99.50

EXTERNAL LIGHTS & SPOTLIGHTS (CONTINUED)

1,450 Lumen LED Spot / Floodlights - Waterproof

Extremely bright waterproof LED spot and floodlights ideal for 4WD use. Each light features 9 x 3W Epistar LEDs that will blast out 1450 Lumens of white light onto the road and into the bush so isolated or remote areas are well lit. Feature die cast aluminium alloy housing with tough polycarbonate lens refractors that will protect the light from small stones. For off-road use only. The LEDs will last for up to 50,000 hours which far exceeds that of regular halogen lights - No more blown globes!

• Mounting brackets included.



SPECIFICATIONS	SL-3934/SL-3936
Beam distance	Spot: 230m, Flood: 125m
Waterproof	IP68
Current draw	12V (2.1A), 24V (1.1A)
Lumens	1450



SL-3934



SL-3936



▲ Type	Lumens		Cat.	Qty 1+	Qty 6+
Spotlights	1,450	Pair	SL-3934	\$119.00	\$106.95
Floodlights	1,450	Pair	SL-3936	\$119.00	\$106.95

2,250 Lumen 25W Single Row LED Vehicle Worklight

Just hook it up to your 12V or 24V battery system and light up your work area, campsite, boat deck or any other outdoor area. This single row LED work light features 5 x high power Epistar 5W LEDs housed in an IP67 rated powder coated aluminium heatsink case, covered with an unbreakable Lexan polycarbonate lens. Being LEDs, they use very little power to produce ample light, and are impervious to shock and vibrations - excellent in 4WD, marine, caravan, mining, or any other harsh environment application. For off-road use only.

SPECIFICATIONS	SL-3975
Beam patter	Flood
Beam distance	92m
Lumen output	2,250
Equivalent halogen	175W
Input current	1.56A (12VDC), 0.80A (24VDC)
Operating temp	-40°C - 60°C
Dimensions	140(L) x 45(H) x 71(D)mm



140mm



▲ Type	Lumens		Cat.	Qty 1+	Qty 5+	Qty 10+
Flood	2,250	Each	SL-3975	\$79.95	\$71.95	\$63.95

3,486 Lumen 4.5" IP68 Solid LED Spot/Floodlights

These LED lights output over 3400 lumens of brilliant white light - that's more light than a 300W halogen! They are also completely shockproof, waterproof (IP68), rust proof, shatterproof, last for 50,000 hours, draw a measly 34W, turn on instantly, have a beam throw of up to 378m (for spotlight, flood = 183m), work off 12VDC or 24VDC, and can handle pretty extreme temperatures without fuss. A must have for any serious 4WD bull bar or roll bar, or for any other application where extreme ruggedness and blinding brightness are desired. Available in either spot or flood beam patterns, and fitted with marine grade 316 stainless steel fasteners. For off-road use only.

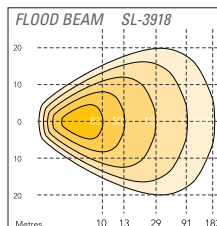
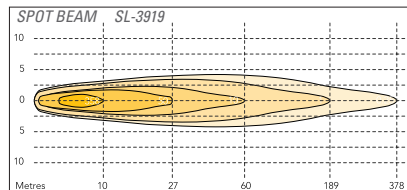
- IP68 waterproof
- Shockproof
- Equivalent light to a 300W halogen



SL-3918



SL-3919



SPECIFICATIONS	SL-3918 / SL-3919
Beam pattern	Flood (SL-3918), Spot (SL-3919)
Beam distance	Flood 183m, Spot 378m
Lumen output	3486
Equivalent halogen lamp	300W
Input current	2.4A (12VDC), 1.2A (24VDC)
Operating temp	-40°C - 60°C
Dimensions (mounted)	120(Dia.) x 82(D)mm (excluding bracket)



▲ Type	Lumens		Cat.	Qty 1+	Qty 2+	Qty 6+
Floodlight	3,486	Each	SL-3918	\$119.00	\$106.95	\$94.95
Spotlight	3,486	Each	SL-3919	\$119.00	\$106.95	\$94.95
White Spotlight Cover			SL-3963	\$10.95	\$9.85	\$8.75
Clear Spotlight Cover			SL-3964	\$10.95	\$9.85	\$8.75

6,300 Lumen IP68 6.5" Solid LED Driving/Spot/Floodlights

With a pair of these fitted to the front of your vehicle, you have the equivalent of over 1000W of halogen light (or over 12,000 lumens in the new speak). They are built tough as nails as well - with an IP68 water and dust proof rating, powder-coated diecast aluminium main body, unbreakable polycarbonate lens, marine grade stainless steel fasteners, and high grade electronic circuitry to protect the 7 Cree® XM-L LEDs and drive them at maximum efficiency. You would be hard pressed to find a better LED light at a better price. Each unit supplied with a 2m wire harness with waterproof connector, and 2 bracket options to suit different applications. For off-road use only.

- IP68 waterproof / Shockproof
- High quality LED driver electronics
- Equivalent light to 500W halogen



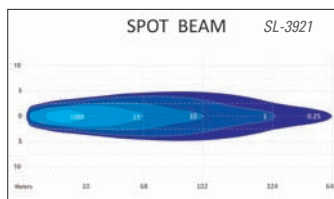
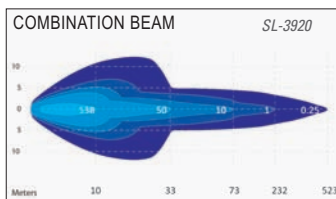
SL-3920



SL-3921



SL-3922



SPECIFICATIONS	SL-3920/SL-3921/SL-3922
Beam pattern	SL-3920: driving flood/spot, SL-3921: spot, SL-3922: flood
Beam distance	SL-3920: 523m, SL-3921: 648m, SL-3922: 210m
Lumen output	6,300
LED type	7 x 10W Cree® XM-L
Equivalent halogen lamp	>500W
Input voltage	9-36VDC
Input current	6.6A(12VDC), 2.64A(24VDC)
Operating temp.	-40°C - 60°C
Dimensions	160(Dia.) x 90(D)mm (excluding bracket)

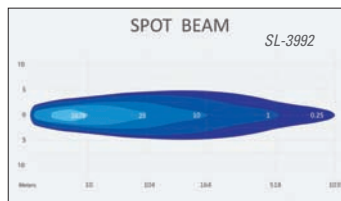
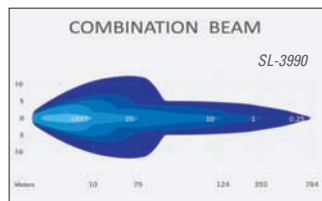


▲ Type	Lumens		Cat.	Qty 1+	Qty 2+	Qty 6+
Driving Light	6,300	Each	SL-3920	\$199.00	\$178.95	\$158.95
Spotlight	6,300	Each	SL-3921	\$199.00	\$178.95	\$158.95
Floodlight	6,300	Each	SL-3922	\$199.00	\$178.95	\$158.95
White Spotlight Cover			SL-3965	\$12.95	\$11.35	\$10.35
Clear Spotlight Cover			SL-3966	\$12.95	\$11.35	\$10.35

EXTERNAL LIGHTS & SPOTLIGHTS (CONTINUED)

10,140 Lumen Extreme 8" LED Driving/Spotlights

Whether you're a serious 4WD off-roader, long haul truckie, or just want to be king of the "spotlight game", these 8" LED driving lights are ultimate choice for lighting up the road. With each light generating over 10,000 lumens of brilliant, cool white light, you will be illuminating well over 1km of the road ahead with a pair fitted to your rig. The main body is constructed with die cast aluminium alloy (ADC12) to act as a heat sink for the LEDs, with anodized polyester black powdercoat for a tough and durable finish. For final protection the front lens cover is made of unbreakable Lexan polycarbonate to defend against the odd rock, tree branch or roof. Of course, being LED you get all the other benefits such as complete shock and vibration resistance (a must on bumpy outback roads), 50,000 hour life expectancy and instant ON/OFF operation. And of course, the whole unit is completely dust and waterproof to IP68 with a Gore-Tex® breather to avoid internal condensation. Sold individually. For off-road use only.



SPECIFICATIONS	BOTH MODELS
Beam pattern	SL-3990 driving (spot/flood), SL-3992 spot
Beam distance	SL-3990 980m, SL-3992 1150m
Lumen output	10,140
LED type	13 x 10W Cree® XM-L
Equivalent Halogen	>750W
Input voltage	9-36VDC
Input current	11A (12VDC), 5A (24VDC)
Operating temp	-40°C - 60°C
Dimensions	200(dia.)mm



▲ Type	Lumens		Cat.	Qty 1+	Qty 2+	Qty 6+
Driving Light	10,140	Each	SL-3990	\$299.00	\$269.00	\$239.00
Spotlight	10,140	Each	SL-3992	\$299.00	\$269.00	\$239.00
White Spotlight Cover			SL-3967	\$13.95	\$12.35	\$10.95
Clear Spotlight Cover			SL-3968	\$13.95	\$12.35	\$10.95

BAR LIGHTS

Solid LED Single Row Driving / Spotlight Bars

Light up the road ahead or the campsite with these impressive lights. The single row design provides a much lower profile compared to dual row, and are much more efficient. Built from powder coated die-cast aircraft grade aluminium with a polycarbonate front cover and Gore-Tex breather, they are not only shock and vibration resistant but IP68 waterproof as well. Fitted with 316 grade stainless hardware. Choose between combination beam (flood and spot) to provide great optimal light performance near and far, or spot beam pattern design for an impressive beam distance of 1100m. For off-road use only.

- IP68 waterproof
- Shockproof
- 50,000hr life Cree® XM-L LEDs
- High quality PWM thermal management electronics
- UV Shielded
- Input voltage: 9-36VDC
- Operating temp: -40°C to +60°C



Five versions available:

SPECIFICATIONS	SL-3985	SL-3986	SL-3987	SL-3988	SL-3989
Beam distance	574m - Combination Beam	912m - Combination Beam	1,100m - Spot Beam	1,080m - Combination Beam	1,370m - Spot Beam
Lumen Output	7,200	14,400	14,400	21,600	21,600
LEDs	8 x 10W Cree®	16 x 10W Cree®	16 x 10W Cree®	24 x 10W Cree®	24 x 10W Cree®
Power	80 Watts	160 Watts	160 Watts	240 Watts	240 Watts
Input current	6.9A(12VDC), 2.8A(24VDC)	13.2A(12VDC), 6.1A(24VDC)	13.2A(12VDC), 6.1A(24VDC)	20A(12VDC), 9.8A(24VDC)	20A(12VDC), 9.8A(24VDC)
Dimensions	330(W) x 50(H) x 82(D)mm, without brackets	610(W) x 50(H) x 82(D)mm, without brackets	610(W) x 50(H) x 82(D)mm, without brackets	889(W) x 50(H) x 82(D)mm, without brackets	889(W) x 50(H) x 82(D)mm, without brackets

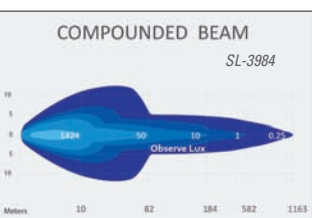
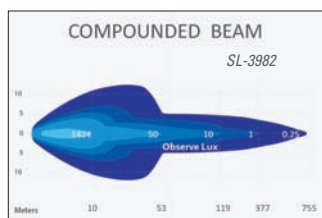
▲ Length	Lumens	Beam	Cat.	Qty 1+	Qty 2+	Qty 6+
13"	7,200	Combination Beam	Each SL-3985	\$229.00	\$209.00	\$182.95
24"	14,400	Combination Beam	Each SL-3986	\$399.00	\$359.00	\$319.00
24"	14,400	Spot Beam	Each SL-3987	\$399.00	\$359.00	\$319.00
35.6"	21,600	Combination Beam	Each SL-3988	\$599.00	\$539.00	\$479.00
35.6"	21,600	Spot Beam	Each SL-3989	\$599.00	\$539.00	\$479.00

8,400 & 16,800 Lumen IP68 Dual Row Solid Spot/Flood Light Bars

These dual row LED light bars feature high quality Osram LEDs with extremely optically efficient lenses, to ensure the maximum light is collected from the LEDs and driven forward for maximum beam distance. Built with powder coated aircraft grade 6063 extruded aluminium, with unbreakable Lexan polycarbonate front lens and Gore-Tex breather to achieve the IP68 waterproof rating - they are very tough. Fitted with combination spot & flood "driving" beam, and features 316 grade stainless hardware. For off-road use only.

- IP68 waterproof
- Shockproof
- 50,000 hour life
- High quality PWM thermal management electronics

Limited Stock



SPECIFICATIONS	SL-3982	SL-3984
Beam pattern	Combination flood & spot	Combination flood & spot
Beam distance	755m	1163m
Lumen output	8,400	16,800
LED type	40x Osram	80x Osram
Equivalent halogen lamp	>600W	>1200W
Input voltage	9-36VDC	9-36VDC
Input current	6.8A(12VDC), 3.95A(24VDC)	14.9A(12VDC), 6A(24VDC)
Operating temp	-40°C - 60°C	-40°C - 60°C
Dimensions	550(W) x 82(H) x 89(D)mm, without brackets	1060(W) x 82(H) x 89(D)mm, without brackets



▲ Type	Cat.	Qty 1+
Combo	Each SL-3982	\$299.00
Combo	Each SL-3984	\$499.00

LIGHTING ACCESSORIES

Universal Bullbar Mounting Brackets

These brackets are designed to mount driving lights, spotlights, UHF antenna's and other various applications to a tube frame (such as a bull-bar). Allows for much easier attachment to bull-bars, trailer railing, ute roll-bars or even a roof rack. Stainless steel construction with shockproof rubber insulation so your tube frame isn't scratched or dented. Ideal for use with our range of 12VDC LED lights SL-3914, SL-3912, SL-3916, SL-3918, SL-3920 and SL-3922. 3 sizes available to fit various diameter frames:



▲ Diameter	Cat.	Qty 1+	Qty 2+	Qty 6+
25-38mm Bullbar Mount	SL-3925	\$14.95	\$13.35	\$11.70
40-52mm Bullbar Mount	SL-3927	\$14.95	\$13.35	\$11.70
70-80mm Bullbar Mount	SL-3929	\$19.95	\$17.70	\$15.70

Spotlight Covers

Keep your LED spotlights covered and protected when not in use or change the light to blue or amber for various driving and weather conducting fog.

Pack includes one each of:

- Clear blue
- Clear amber
- Solid white

Because the LED lamps run cooler, you can run the lights with the covers on. Great for foggy/misty conditions. (A quartz lamp would melt the cover!)



▲ Spotlight Cover	Cat.	Qty 1+	Qty 2+	Qty 6+
To suit SL-3918 & SL-3919	SL-3917	\$24.95	\$22.50	\$19.95
To suit SL-3920, SL-3921 & SL-3922	SL-3923	\$29.95	\$26.95	\$23.70

12V 60A Wireless Lighting Controller

This extremely useful lighting controller gives you wireless control over your light bars, driving lights, caravan lights and any other 12V powered device. 8 output channels over two zones provides the ability to switch lights on and off at the touch of a button. The two main (green and blue) zones each have 4 outputs for up to 20, 5, 3.5, and 1.5A output respectively. Total power load is up to 60A (that's a lot of light bars!). The controller is fused for safety, so you can connect it straight to your vehicle battery, and your light bars to the controller - simple! Lights are quickly connected into the screw-down terminals, and the control box has mounting tabs for secure mounting in your vehicle.



NEW 2017

SPECIFICATIONS	MS-6210
Max Power Output	12VDC @ 60A
Rated Input Voltage	12VDC
Working Voltage	11-15VDC Input
Low Voltage Protection	9.5VDC +/- 0.3VDC
Remote Control Battery	12V A23 Alkaline (included)
Wireless frequency	433MHz
Dimensions	135(W) x 132(D) x 35(H)mm (Excluding Cables)

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
8 Channel	MS-6210	\$99.95	\$89.95	\$79.95

SHOW US YOUR BUILD COMPETITION

Neil, who shops at our Jaycar North Rockhampton store built:



This is a jet engine I both designed and constructed. It makes use of a turbo charger, and has an afterburner. I used 2 x Jacobs Ladder kits from Jaycar (mounted in the grey boxes) for the ignition system on this to ignite both the combustion chamber as well as the afterburner.

12VDC Universal Relay Wiring Kits

Universal relay wiring kits for fitting various 12V devices to your car, such as our LED driving lights. Each harness is complete ready to use with fused battery connections, horn relay, in-cabin toggle switch, and waterproof 2 pin connection with 2m of extra wires to connect to the 12V load you want to control. The cables are fully protected inside a loom tube. Three harnesses to choose from:



LOW PRICE

12VDC 7A - SINGLE - SY-4079

- Includes a short double adaptor lead so that you can fit two or more of these wiring harnesses and control them with the one switch. Sold individually

12VDC 13.5A - DUAL - SY-4180

- Controls a pair of LED driving lights or devices up to 150W
- Sold as a pair

12VDC 22.5A - DUAL - SY-4182

- Controls a pair of LED driving lights up to 200W
- Sold as a pair

1 YEAR WARRANTY

▲	Wiring	Cat.	Qty 1+
7A	Single	SY-4079	\$24.95
13.5A	Dual	SY-4180	\$34.95
22.5A	Dual	SY-4182	\$44.95

12VDC 30A Relay Wiring Kits

Taking a shortcut might be fine when you're driving through the bush. But don't do it with your electrical wiring. These relay kits take the hassle out of figuring out relay wiring, to provide a safe and easy method to install any high current device. That might be a fridge, driving lights, awning lights, or anything else. By wiring through a relay, you're not feeding all the power through your switch mechanism, which keeps the high current cabling to a minimum. They're easy to install and will save you time. Two models available. Each kit includes a 2m wiring loom, 30A relay, a contura style switch, and one or two high current outputs.



NEW 2017

Due June 2017

SPECIFICATIONS	BOTH
Rated Voltage	12VDC
Maximum Current	30A @ 12VDC
Cable Length	2m

▲	Wiring	Cat.	Qty 1+	Qty 10+	Qty 25+
30A	Single	SY-4081	\$39.95	\$35.95	\$31.95
30A	Dual	SY-4184	\$49.95	\$44.95	\$39.95

HOW TO WIRE UP DRIVING LIGHTS

TECH TALK

Fitting spotlights or driving lights to your 4WD, ute or other vehicle is generally pretty simple when you use a relay wiring kit like our SY-4079 on page 242, 474, but it pays to wire it correctly to avoid any hassles with the law. Most states follow the requirements of the Australian Design Rules (ADRs), which requires that they be wired so that they only operate in conjunction with the head light circuit and are fitted with an independent ON/OFF switch - however some states require them to only operate in conjunction with the HIGH beam circuit and with an independent switch. Check with your local transport authorities for rules in your area.

SHOW US YOUR BUILD COMPETITION

Ashley, who shops at our Jaycar Warners Bay store built:



32" Light Bar on a Civic, one of the stranger but greater things I've ever done with a light bar was attaching one to the front of my 97 Honda Civic, and now she's got teeth! :)

CAR LIGHTING - EXTERIOR

Warning: State roads & traffic authorities prohibit the retrofitting of these products to cars with normal headlights. To be used only for off-road and showroom vehicles when replacing quartz halogen bulbs, or as headlight replacements for HID factory-fitted new model vehicles

Slim Ballast Xenon HID Light Kits

HID provides far greater light output than standard automotive lights. At night, road signs, pedestrians, and general road hazards will receive much better illumination so you can drive with more confidence. This series of kits all feature a slim ballast design for ease of installation in engine bays and tight spaces.

- Ballast dimensions: 85(L) x 61(W) x 15(H)mm
- Lifespan: >2500 hours
- 300% more light than halogen
- HID 92 Lumens per watt compared to 18 Lumens per watt for a halogen

H1 Slim Ballast HID Kit 12V 6000K
H4 Slim Ballast HID Kit 12V 6000K
H4 Slim Ballast HID High/Low Kit 12V 6000K
H7 Slim Ballast HID Kit 12V 6000K



Only with SL-3495

Note: Please ensure your lights are angled correctly
These lights are not ADR approved

▲ Voltage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
12V	H1	SL-3490	\$59.95	\$53.95	\$47.95
12V	H4	SL-3494	\$49.95		
12V	H4 High + Low	SL-3495	\$84.95	\$76.45	\$67.95
12V	H7	SL-3496	\$59.95	\$53.95	\$47.95

HID Single Beam Bulbs - 35W

Drop-in replacements HID bulbs.

H3, H4 and H7 types available.

Power Lumination 35W
Lifespan 2500 - 3,500 lumens
Colour temperature 3000 hours
Voltage 3000 - 6000K
70 - 100V



▲ Voltage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
12V	H3	SL-3411	\$14.95	\$13.35	\$11.70
12V	H4	SL-3412	\$14.95	\$13.35	\$11.70

Replacement Bulb

Used in the latest model luxury and high performance cars, High Intensity Discharge (HID) vehicle headlights are far brighter, whiter and more efficient than their quartz halogen predecessors. This HID dual lamp conversion kit is suitable for H4 bases and incorporate the latest in German engineering.

- 35W HID Xenon lamps
- 6000K colour temperature comparable to sunlight
- Extra bright 3200 lumens



1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	Replacement High/Low HID Bulb SL-3414	\$24.95	\$22.35	\$19.70

Headlamp Kits with LUXEON Z ES LEDs

Bright vehicle headlamps with advanced LUXEON Z ES LEDs. Each kit comes in an alloy bodied case and connects via the supplied ballasts. Each kit contains 2 x LED modules, 2 x controller assemblies, and all the wiring is pre-terminated to appropriate connectors to make installation as quick and easy as possible. Each kit has a very high light output, 2,500 lumens for 30W (H7) and 3,000 lumens for 40W (H4) of power light output. These modules will last up to 10,000 hours and are very efficient.

- Accurate LED position to ensure correct beam pattern
- More spot without glare
- Plug and play
- High intensity LUXEON Z ES LEDs



SPECIFICATIONS	SL-3522	SL-3524
LED type	2 x LUXEON Z ES	2 x LUXEON Z ES
Colour temperature	5,500K	5,500K
Lumens	3,000	3,800
Operation mode	Low	High and Low
Power	30W	40W
Input voltage	8VDC - 48VDC	8VDC - 48VDC
Lifetime	10,000 hours	10,000 hours
Dimensions	84(L) x 42(W)mm	84(L) x 42(W)mm

1 YEAR WARRANTY

▲ Voltage	Type	Cat.	Qty 1+	Qty 4+	Qty 10+
12/24V	H7 Low	SL-3522	\$189.00	\$169.95	\$150.95
12/24V	H4 High + Low	SL-3524	\$169.00	\$151.95	\$134.95

CAR LIGHTING - INTERIOR

T5 & T10 Replacement LED Globes - 12VDC

Replace or jazz up your automotive dashboard or indicator lighting with LEDs! Not only will they spruce up the look of your car, they are also long life with low current consumption and total reliability.

- T5 & T10 sizes to suit most applications



▲	Type	LED Globe	White	Cat.	Qty 1+	Qty 2+	Qty 4+
T5	Wedge	LED Globe	White	ZD-0380	\$1.95	\$1.75	\$1.40
T5	Wedge	LED Globe	Red	ZD-0381	\$1.95	\$1.75	\$1.40
T5	Wedge	LED Globe	Blue	ZD-0382	\$1.95	\$1.75	\$1.40
T5	B8.5D	LED Globe	White	ZD-0384	\$2.50	\$2.21	\$1.80
T5	B8.5D	LED Globe	Red	ZD-0385	\$2.50	\$2.21	\$1.80
T5	B8.5D	LED Globe	Blue	ZD-0386	\$2.50	\$2.21	\$1.80
T10	Wedge	LED Globe	White	ZD-0390	\$1.95	\$1.75	\$1.40
T10	Wedge	LED Globe	Red	ZD-0391	\$1.95	\$1.75	\$1.40
T10	Wedge	LED Globe	Blue	ZD-0392	\$1.95	\$1.75	\$1.40
T10	Wedge	LED Globe	Quad White	ZD-0394	\$3.50	\$3.15	\$2.85
T10	Wedge	LED Globe	Quad Red	ZD-0395	\$3.50	\$3.15	\$2.85
T10	Wedge	LED Globe	Quad Blue	ZD-0396	\$3.50	\$3.15	\$2.85

LED Replacement Globes with 6 x 5730SMD LEDs

This range of common automotive and general use LED globes are also compatible with modern CANbus systems, so that they don't give globe failure warnings when you fit them to your modern vehicle. Each globe is powered by 12VDC, is fitted with six high brightness 5730SMD type LEDs, and have a non-polarity circuit so you don't have to worry about fitting them the right way around.

There are three models to choose from:

Cat no.	Base	Lumens	LED Type	Beam	Colour	Dimensions
ZD-0730	T10 wedge	150	6x5730SMD	360°	White	28(H) x 12(Dia)mm
ZD-0732	E10 screw	150	6x5730SMD	360°	White	28(H) x 12(Dia)mm
ZD-0734	BA9S bayonet	150	6x5730SMD	360°	White	28(H) x 12(Dia)mm

1 YEAR WARRANTY

▲ Type	Cat.	Qty 1+	Qty 4+	Qty 10+
T10 Wedge	ZD-0730	\$14.95	\$13.45	\$11.95
E10 Screw	ZD-0732	\$14.95	\$13.45	\$11.95
BA9S Bayonet	ZD-0734	\$14.95	\$13.45	\$11.95

Reversing LED Light Globe with Beeper

Replacement LED reversing light with built-in warning buzzer to warn pedestrians that you are reversing. Great for large caravans, trucks and buses. Suits vehicles with P21W BA15S reverse light bulbs.

- 9 Super Bright White LEDs
- Input voltage: 12VDC
- Max SPL: 115dBs
- Brightness: >6000 lux
- Current: <400mA

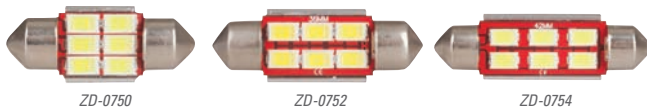


▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	ZD-0519	\$9.95	\$8.75	\$7.75

CANBUS COMPATIBLE GLOBES

LED Festoon Replacement Globes, CANBus Compatible

A range of ultra-bright LED replacement "festoon" globes for car interior lights, which are fully compatible with modern "CANBus" systems that would otherwise give a globe failure warning when using an LED globe. Each globe features six ultra bright wide angle SMD LEDs, a non-polarity circuit (can fit the globe either way), and a CANBus circuit. There are three models to choose from, each working on 12VDC.



Cat	Size	Lumens	LED Type	Beam	Colour	
ZD-0750	31mm	150	6x5730SMD	120°	White	1 YEAR WARRANTY
ZD-0752	36mm	150	6x5730SMD	120°	White	
ZD-0754	41mm	150	6x5730SMD	120°	White	

▲ Size	Cat.	Qty 1+	Qty 4+	Qty 10+
31mm	ZD-0750	\$12.95	\$11.35	\$10.35
36mm	ZD-0752	\$12.95	\$11.35	\$10.35
41mm	ZD-0754	\$12.95	\$11.35	\$10.35

CANBus Compatible Automotive BA15 Type LED Replacement Globes

More and more modern vehicles are employing an electronic control system called CANBus, which has many benefits including monitoring of globe failures. This can pose a bit of a problem with LED replacement globes causing the CANBus to detect that globe as having failed. This range of BA15 type LED globes are all CANBus compatible (won't give errors), with universal polarity, very low power consumption and a high lumen output. For off-road use only.

- Powered by 12VDC, can be used as tail/brake light (BAY15D), parker light (BA15S), or even as interior light globes (BA15D/BA15S) thanks to their high brightness
- The BA15D is very commonly used in caravan and marine interior lights

Three types available:

Cat	Base	Lumens	LED Type	Beam	Colour	Dimensions
ZD-0740	BAY15D	525	21x 5730SMD	360°	White	50(H) x 18(Dia)mm
ZD-0742	BA15D	525	21x 5730SMD	360°	White	50(H) x 18(Dia)mm
ZD-0744	BA15S	525	21x 5730SMD	360°	White	50(H) x 18(Dia)mm

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Stop/Tail Lamp CANBus	ZD-0740	\$19.95	\$17.95	\$15.70
Interior/Navigation Lamp CANBus	ZD-0742	\$19.95	\$17.95	\$15.70
Interior/Park/Reverse Lamp CANBus	ZD-0744	\$19.95	\$17.95	\$15.70

CAR LIGHTING KITS

Universal T10/211/BA9S LED Retrofit Kits

Fantastic little kits to upgrade your car/caravan/boats interior lighting with LED technology. Each kit consists of an array of LEDs on a board with 3M adhesive foam backing, making it easy to retrofit into almost any existing light. There are 3 bases which can connect to T10, 211, or BA9S sockets. The base is then connected to the SMD LED array, couldn't be easier! The LEDs will give greater lifespan and brighter light in many cases.

Three kits available.

21 X SMD LEDs - ZD-0585

24 X SMD LEDs - ZD-0587

36 X SMD LEDs - ZD-0589

SPECIFICATIONS	ZD-0585	ZD-0587	ZD-0589	
Power	2.5W, 12VDC	3W, 12VDC	4.5W, 12VDC	1 YEAR WARRANTY
Lumens	260	310	450	
LED type	2835 SMD	2835 SMD	2835 SMD	
LED count	21	24	36	
LED colour	Cool white	Cool white	Cool white	
Dimensions	25(L) x 20(W)mm	45(L) x 25(W)mm	60(L) x 40(W)mm	

▲ Lumens	Power	Cat.	Qty 1+	Qty 2+	Qty 4+
260	2.5W	ZD-0585	\$9.95	\$8.75	\$7.75
310	3W	ZD-0587	\$12.95	\$11.35	\$10.35
450	4.5W	ZD-0589	\$14.95	\$13.45	\$11.95

360° "3D" BA15 Type LED Automotive Replacement Globes, CANBus Compatible

Many cars are now employing an electronic control system called CANBus, which can be a problem when using LED replacement globes as the system will give a globe failure indication. Being CANBus compatible, these LED globes don't cause these failure indications. Each globe features a special "3D" type of LED lamp, which provides an extremely even, wide light output that is very similar to a normal globe in style and appearance. This makes them a perfect replacement for interior lights, and automotive lamps where the light fitting has a lot of "clear" elements making other LED globes unattractive to look at. Powered by 12VDC, and suitable for off-road use only.

Three models available:

Cat	Base	Lumens	LED Type	Beam	Colour	Dimensions
ZD-0746	BAY15D	300	"3D" LED	360°	White	50(H) x 18(Dia)mm
ZD-0748	BA15D	300	"3D" LED	360°	White	50(H) x 18(Dia)mm
ZD-0749	BA15S	300	"3D" LED	360°	White	50(H) x 18(Dia)mm



AUTOMOTIVE GLOBES

TECH TALK

You may look at our range of LED automotive globes and wonder what all these different globe numbers mean: BA15S, T10, E10, BAY15D, etc.

Well luckily these numbers are an industry standard, and actually describe the type and size of the globe's base and pin arrangements.

Below is a list of the most common types of automotive globes, and a typical application for them:

T5	5mm wedge style base. Used in dashboard illumination
T10	10mm wedge style base. Used in dashboards, park light, number plate illumination, etc
T20	20mm wedge style base. Used in some indicators, tail and brake lights
E10	10mm Edison screw base. Used in some dashboards, park lights and number plate illumination (typically on older vehicles)
BA9S	9mm Bayonet cap base with single contact pin. Used in dashboards, park lights and various lights
BA15S	15mm Bayonet cap with single contact pin. Used in indicators, tail, parker and some brake lights
BA15D	15mm Bayonet cap with two contact pins. Used in caravan interior lights and marine navigation lights
BAY15D	15mm Bayonet cap with offset side location tabs, with two contact pins on the base. Used for tail/stop lights (high/low brightness)

SHOW US YOUR BUILD COMPETITION

Simon, who shops at our Jaycar Frankston store built:



Can you see which parts of my aircraft panel came from your store?

CAR LIGHTING - TRAILER LIGHTS

12V LED Trailer Lights (Stop/Turn/Tail)

Regular bulb failures in your trailer lights are not only a pain in the posterior, but also quite dangerous to your fellow road users. Switching to LED alternatives solves this problem completely, since LEDs are not at all affected by shock and vibration, last over 50,000 hours, use a fraction of the power, and are actually more visible to other road users.



These trailer lights are an "all-in-one" solution measuring only 100mm wide by 90mm high, and providing all the legal illumination needs of a caravan, boat trailer, camping trailer etc., being: Stop, Tail, Turn and number plate illumination. They appear to be quite water resistant but we cannot quote an IP rating for water and dust. Also has a red reflector panel.

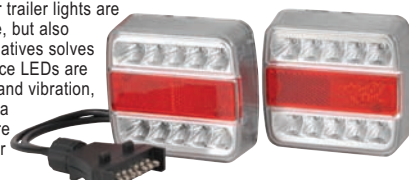
- Screw stud mount.
- Dimensions: 100(W) x 90(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Pair	ZD-0720	\$39.95	\$35.90	\$31.90

12V LED Trailer Light Kit with Wiring

Regular bulb failures in your trailer lights are not only annoying to replace, but also quite dangerous. LED alternatives solves this problem completely, since LEDs are not at all affected by shock and vibration, last over 50,000 hours, use a fraction of the power, and are actually more visible to other road users.



These trailer lights are an "all-in-one" solution measuring only 100mm wide by 90mm high, and providing all the legal illumination needs of a caravan, boat trailer, camping trailer etc., being: Stop, Tail, Turn and number plate illumination, along with a red reflector panel. The housing is submersible which is perfect for boat trailers, and each light is fitted with a connector to make wiring easier. The kit includes 2x trailer lights, a pre-made 7m trailer cable with 7pin flat trailer connector. Sold as a pair.

- ADR Approved
- Screw stud mount.
- 7m pre-made trailer cable included
- Dimensions: 100(W) x 90(H)mm (each)



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
Pair with Wiring	ZD-0722	\$69.95	\$62.95	\$55.95

12V 1.5m LED Brake Light Strips

Compared to normal incandescent bulbs LEDs are brighter, which makes them easier to see from a distance and light up quicker. Features a 2 piece durable construction and waterproof for exterior mounting. Install in minutes using 4 pin SAE plug.

- 90 x Red LEDs
- Dimensions: 1524(L) x 22(W) x 5(H)mm

Limited Stock



Note: NOT ADR APPROVED

▲	Cat.	Qty 1+
	SL-3962	\$49.95

TRAILER WIRING ACCESSORIES

Before 1988, the only trailer connector in common use was a 6 pin unit (There were some 5 pin plug/sockets found in Victoria, TAS, SA & NT). Since 1988 you must have a 7 pin (minimum) connector in order to register your boat, camper trailer etc. (You may need a bigger connector in some cases, so consult an auto electrician for this) in both Australia & New Zealand. You can, however, in the case of small box trailers use 5 core wire. See below.



TRAILER CONNECTORS

There are now three types of trailer connectors - each with its own wiring configuration. See our website for full details of pin connectors and colours...

Re-Wireable Trailer Connectors - 7 Pin

A range of the most common 7 pin trailer plugs and sockets, featuring easy to use screw down terminals, corrosion resistant metal contacts and high quality UV stabilised plastics. In each type, the socket is fitted to the vehicle, and the plug is fitted to the trailer.

- All trailer plugs and adaptors are made from the highest quality material.



▲	Cat.	Qty 1+	Qty 10+
7 Pin Flat Plug	PP-2050	\$7.95	\$6.25
7 Pin Flat Socket	PS-2051	\$7.95	\$6.25
7 Pin Large Round Plug	PP-2052	\$7.95	\$6.25
7 Pin Large Round Socket	PS-2053	\$7.95	\$6.25
7 Pin Small Round Plug	PP-2054	\$7.95	\$6.25
7 Pin Small Round Socket	PS-2056	\$7.95	\$6.25

Trailer Plug Adaptor Leads - 7 Pin

Often we find that the trailer we've borrowed from a mate does not plug into the socket on your vehicle, and that's where these trailer plug adaptor leads come in handy. About 300mm in length, and 6 versions available to fix up any mismatch of the 7 Pin Flat, 7 Pin Large round and 7 Pin Small round trailer connectors. Remember, match the plug end of the adaptor to the socket on your car, and the socket end of these adaptors to the plug end on your trailer.

- All trailer plugs and adaptors are made from the highest quality material.



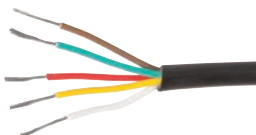
▲	Cat.	Qty 1+	Qty 3+	Qty 6+
7 Pin Flat Plug to 7 Pin Large Round Socket	PA-2061	\$17.95	\$15.95	\$13.95
7 Pin Flat Plug to 7 Pin Small Round Socket	PA-2062	\$17.95	\$15.95	\$13.95
7 Pin Small Round Plug to 7 Pin Flat Socket	PA-2063	\$17.95	\$15.95	\$13.95
7 Pin Large Round Plug to 7 Pin Flat Socket	PA-2064	\$17.95	\$15.95	\$13.95
7 Pin Small Round Plug to 7 Pin Large Round Skt	PA-2065	\$17.95	\$15.95	\$13.95
7 Pin Large Round Plug to 7 Pin Small Round Skt	PA-2066	\$17.95	\$15.95	\$13.95

5 Core Box Trailer Cable - 10m - Tinned

A 10 metre length of the standard 5 conductors sheathed in a tough black PVC jacket. Conductor colours are listed below. Makes wiring easy.

- Yellow (Left indicator)
 - White (Earth)
 - Green (Right indicator)
 - Red (Stop light)
 - Brown (Tail light, no. plate & clearance)
 - * Suitable for box trailers only.
- You still must use 7 pin connectors.

Now tin plated, at no extra charge



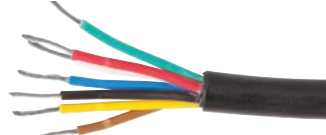
▲	Cat.	Qty 1+	Qty 4+	Qty 10+
5 Core	WH-3091	\$39.95	\$34.95	\$29.95

7 Core Trailer Wiring Loom - 10m - Tinned

A 10 metre length of the standard 7 conductors sheathed in a tough black PVC jacket. Conductor colours are listed below. Makes wiring easy. 10m accommodates even up to quite large boat trailers.

- Yellow (Left indicator)
- Black (Aux/reversing)
- White (Earth)
- Green (Right indicator)
- Blue (Electric brakes)
- Red (Stop light)
- Brown (Tail light, no. plate & clearance)

Now tin plated, at no extra charge



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
7 Core	WH-3090	\$44.95	\$39.95	\$35.95

MARINE TORCH & DISTRESS LIGHTS

Survivor Distress LED Light

A handy safety device that is a must when you are venturing out in open water. Unit is small, lightweight with a lanyard and clip for easy attachment to any life jacket or clothing. The bright LED distress light activates automatically when submerged in water.

- Water activated
- Waterproof construction
- Battery replaceable - battery Life: up to 100 hours



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Distress LED Light	ST-3230	\$6.95	\$6.25	\$5.50

Floating LED Strobe Light Flare

An essential safety device for boating enthusiasts or those who place themselves in situations of vast isolation. This LED flare is waterproof and will float vertically so the lens end sits above water. It also features a strong magnetic base so will sit securely on body of a car in the event of an emergency.

- Burn time: 72 hours
- Requires 2 x AAA batteries
- Dimensions: 158(H) x 36(Dia.)mm

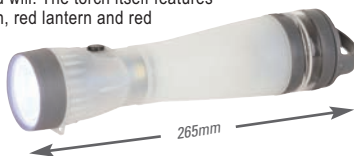


▲	Cat.	Qty 1+
LED Strobe	ST-3231	\$14.95

6 in 1 Survival Torch with Storage Compartment

Features an emergency auto-flashing feature. Auto-flashing is triggered when the torch hits water, where it will float too. But that's not all! Two built-in compartments can hold an emergency ration of water (or collect one from a natural water source), and either some critical medication or other small emergency supplies. The entire case is IP68 rated, so it'll go wherever you will. The torch itself features several lighting modes: torch, lantern, red lantern, red lantern and red flashing lantern. When using it as a lantern, you can stand it on-end on a table, or hang it up using the integrated loop. Drop-resistant to 1m, it's rugged enough to go everywhere you do.

- Auto-flashing emergency mode
- Floats on water
- 4 light modes



SPECIFICATIONS	ST-3133
Light Modes	Torch, Lantern, Red Lantern, Red Flashing Lantern
Light Output	40 lumens (torch), 120 lumens (lantern), 30 lumens (red lantern)
Burn Time	Up to 20hrs
Batteries	3 x AA (not included)
Weight	210g (including alkaline batteries)
Dimensions	265(L) x 60(Dia.)mm



▲ Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
120	ST-3133	\$19.95	\$17.95	\$15.95

FISH FINDER

Wi-Fi Fish Finder with Smartphone App

A small spherical device to help amateur fisherman find their targets. Simply connect to it via Wi-Fi, load the Smartphone App, throw it into the water (tethered to a fishing line ideally), and the fish finder will transmit fish location and fish size data back to an Android or iOS equipped Smartphone/ Tablet. In technical terms, the Wi-Fi transducer will pulse a sound wave outwards, the returned echoes are transmitted to the App. Water temperature readings are also viewable through the App which may help in boat positioning. Though this device can be tethered we recommend using it in lakes and other still bodies of water.

Wi-Fi fish finder App available for Android/iOS devices.

Note: Only 5 devices can be registered to one fish finder and only one can be used at any time.



Limited Stock

SPECIFICATIONS	GE-4250
Wi-Fi range	20m
Sonar frequency	125kHz
Sonar coverage	90°
Depth capacity	0.6m-20m
Power	3.7V rechargeable lithium battery (included)
Running time	5 hours fully charged
Charger	5VDC/500mA USB charger supplied
Dimensions	67(Dia.)mm



IPHONE® NOT INCLUDED



▲	Cat.	Qty 1+
Wi-Fi Fish Finder	GE-4250	\$69.95

Floating LED Torch

A sturdy quality torch for your next camping trip or fishing adventure. Equipped with 3 ultra bright Osram Oslon LEDs, matched with a special reflector to produce a focused beam capable of lighting up long distances. The base features a fold-out hook for attaching to your bag or hanging in your tent. Both the base and lens end are o-ring sealed allowing the torch to float in water.

- Osram Oslon LEDs
- Requires 2 x D batteries
- Dimensions: 215(L) x 71(Dia.)mm



It Floats!

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
Floating Torch	ST-3487	\$29.95	\$26.90	\$23.70

1,500 Lumen Waterproof Floating Spotlight

Designed for taking on the boat. It is fully waterproof and will float if it is knocked into the water. Includes a hand strap that you can tighten so you can't lose it if you find yourself falling overboard. Supplied with mains and cigarette lighter charger.



NEW 2017

1 YEAR WARRANTY

Look for our other Floating Spotlights on page 483

SPECIFICATIONS	ST-3327
Burn Time	High: 6.5Hrs, Low: 14Hrs, SOS: 15Hrs
Battery	3 x S1P Rechargeable Lithium 18650 Batteries (11.1V 2200mAh)
Weight	820g
Dimensions	200(H) x 190(D) x 120(Dia.)mm

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
1,500	ST-3327	\$119.00	\$106.95	\$94.95

SHOW US YOUR BUILD COMPETITION

Geoff, who shops at our Jaycar Belconnen store built:



This is a robotic fish that I built from scratch using my own design. Main propulsion is a large servo motor to move the tail and fin servos for orientation. The brain is an 8 processor propeller chip. Follows light with sensor eyes. Sonar is included for obstacle avoidance. 700mm long, perspex 2kg.

MARINE AUDIO

Naval Style Communications Speaker with Gymbal Mount

This small but powerful unit delivers clear voice from either VHF, 27MHz or even HF communications receivers. It features a no-nonsense naval style in a light grey.

- It is very close to waterproof, in that the speaker cone is Mylar, the bezel is gasketed and the cord entry is IP65.
- Don't let the small dimensions fool you - it is a full 4W rated unit.



SPECIFICATIONS	AS-3186
Power handling	2.25WRMS
Power Max	5W
Impedance	80hm
Freq range	320Hz - 4,500kHz
Sensitivity	88dB/m
Dimensions	66(L) x 66(W) x 55(H)mm
Weight	185g
2.2m cable terminated to a 3.5mm plug	
Bezel dimensions	65mm square, 55 deep

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Comms Speaker	AS-3186	\$19.95	\$17.95	\$15.95

BOAT ANTIFOULING SYSTEM

This product is based on the collaborative design between us and "Silicon Chip" magazine. (See the September 2010 issue of this magazine for a complete preamble and technical description of electronic/ultrasonic antifouling technology.)

The product was originally only available in DIY kit form which limited availability to experienced home constructors. Even so the kit has been very popular. The scope of the original design has been expanded to include larger vessels.

We also have completely manufactured the transducers & all electronics. It is now just a straight forward installation of a built and warranted product.



VIDEO
ONLINE

GENERAL

There seems to be a growing consensus that ultrasonic antifouling systems appear to work very well. With such a system you should be able to avoid the yearly task of slipping the boat and repainting the hull with what has to be a pretty nasty chemical goo called antifouling paint. We estimate that ultrasonic antifouling should reduce this task up to 90%. You will still probably need to slip your boat occasionally to monitor corrosion, replace sacrificial anodes, etc.

WHAT YOU GET WITH THIS PRODUCT

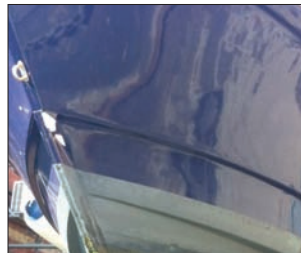
The two and four channel units are almost identical. You get a control box which contains the electronics. You get a wiring loom which includes plenty of cable to locate the transducers. You will also get a comprehensive installation & instruction manual. You will need to do your own wiring for the +12VDC power source. This means you will need to provide a switch, live fuse & 10A rated marine grade wire.

TECHNICAL DESCRIPTION

The central component is a main PCB which consists of a specially programmed micro processor which generates the special frequencies which seriously deter growth of the various organisms that choose to use your boat as a home. The microprocessor and associated circuit has a special low battery detect feature. If the battery powering this unit falls below a threshold voltage the unit turns itself off. This prevents the battery becoming totally flat. Flat batteries quickly sulphate up and are generally a write-off after that. It is therefore important to have a regular battery charge on your boat. (The best of course is permanent connection to shore power or solar or wind turbine alternator boost.) The central circuit drives up to four ultrasonic transducers which are firmly attached to the hull. Generally two transducers will do for a boat up to 12m and four for a boat up to 22m.

The photographs shown below are from a customer's 22ft boat using the kit version of the antifouling system shown above (except he was only using "ONE" transducer). In the customer's post on a popular yachting blog, he explains that the photos were taken eleven months after the hull was cleaned of hard and heavy growth, and twenty one months after the boat's last antifouling. There was no hard growth, and the soft growth that is visible in the photographs could be easily removed with a soft nailbrush! Overall the customer was extremely happy with the result and believes the system has already paid for itself. If you want to read the article for yourself visit <http://bit.ly/ybhrefview>

Photos courtesy of Dr Parmegiani



"The result was so good, I nearly cried." These photos show the hard growth (or lack of) nearly 2 years after the boats last antifouling.

Two Antifouling models available:



▲	Cat.	Qty 1+	Qty 5+
Dual Version	YS-5600	\$999.00	\$899.00
Quad Version	YS-5602	\$1,329.00	\$1,199.00

Full installation, intro video & user manuals available on website.



2
YEAR
WARRANTY

SUPER BRIGHT LED WORKLIGHTS / FLOODLIGHTS

Once again LEDs have revolutionised the established concept at floodlights and work lights. Up until recently a workshop light meant trailing a dangerous 240V lead, often across a wet or greasy floor. Now these devices are often 12V powered (there are still powerful 240V models for all night marathons). The portable ones are also great for

2-in-1 LED Flood/Worklights - IP65 - 240VAC

Introducing our new and improved 2-in-1 240VAC flood/worklights. Each featured with a detachable stand with handle for portability inside a workshop or in construction site. The flood/worklights can also be mounted on the wall without using the detachable stand for more permanent applications such as garden, driveway, deck, hallway and other entry ways. The extremely low wattage power consumption keeps the running costs down and produce plenty of light to illuminate a wide area. Weatherproof rated (IP65) with high-strength tempered glass cover and high-pressure die cast aluminium shell which makes them extremely durable and robust to suit most outdoor applications.

Powered by 240VAC mains with full electrical safety approval.

Two models available:

500 LUMEN 10W - 2-IN-1



1500 LUMEN 30W - 2-IN-1



2-in-1 models for wall mount or portable

SPECIFICATIONS	SL-2876	SL-2877
Outdoor rated	IP65	IP65
Power consumption	10W	30W
Colour	Cool white	Cool white
LED Life	Greater than 50,000 hours	Greater than 50,000 hours
Lens angle	120 degree	120 degree
Power input	240VAC	240VAC
LED module dimensions	115(L) x 85(W) x 85(D)mm	225(L) x 185(W) x 125(D)mm
Stand dimensions	235(H) x 148(W) x 165(D)mm	310(H) x 275(W) x 225(D)mm

▲ Lumens	Watts	Cat.	Qty 1+	Qty 5+	Qty 10+
500	10W	SL-2876	\$29.95	\$26.95	\$23.95
1500	30W	SL-2877	\$74.95	\$66.95	\$59.95

2-in-1 Powered LED Worklights - 12VDC

Handy LED worklight that can be powered from the cigarette lighter socket in your car. Perfect to add light to your campsite, or while repairing your car. High-strength tempered glass cover with durable aluminium case gives extra strength to the light with protected charging slots. They come with a foam grip handle to make it easy to handle.

Weather resistant (IP65) so it can be used in poor weather conditions.

Supplied with 3m cigarette lighter type power lead.

2-in-1 models for wall mount or portable

SPECIFICATIONS	SL-2815	SL-2817
Working Voltage	12VDC	12VDC
Power	10W	30W
Lumen	500	1500
Ingress rating	IP65	IP65
Emitting colour	Cool white (6000K)	Cool white (6000K)
Life time	>50,000 hours	>50,000 hours
Charging cable length	3m cigarette power lead	3m cigarette power lead
Dimensions	115(L) x 110(W) x 85(H)mm	225(L) x 185(H) x 125(W)mm

▲ Lumens	Watts	Cat.	Qty 1+	Qty 5+	Qty 10+
500	10	SL-2815	\$34.95	\$31.45	\$27.90
1500	30	SL-2817	\$89.95	\$80.95	\$71.95

outdoor functions at night, as well as camping and fishing outdoors. Once you have appreciated the portability of these bright, rugged and lightweight lamps you will wonder how you did without them.

Slimline LED Worklights - IP65 - 240VAC

Avoid the heat and hassle of traditional Xenon / Halogen worklights.

They're power hungry, generate a lot of heat, and there's nothing worse than a blown globe while you're trying to see what you're doing. These lights feature an integrated floor stand, and put out plenty of ultra-white bright light. They use far less power than their traditional counterparts, which is especially important when running from a generator or inverter power. They're IP65 rated so won't mind a little rain, and they're tough, so you don't have to wrap them in cotton wool to transport them in the back of your ute either. 10W and 30W versions available.



SPECIFICATIONS	BOTH
Ingress Protection	IP65
Weight	SL-2866 - 0.8kg, SL-2867 - 1.4kg
Dimensions	SL-2866 - 142(W) x 215(H) x 161(D)mm, SL-2867 - 215(W) x 290(H) x 180(D)mm
Power	240VAC
Mains Lead	1m

▲ Lumens	Watts	Cat.	Qty 1+	Qty 4+	Qty 10+
650	10W	SL-2866	\$24.95	\$22.45	\$19.95
2100	30W	SL-2867	\$59.95	\$53.95	\$47.95

DISCOUNT TRADE CARD

If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to substantial discounts on most Jaycar products.



Discounts range from 5% to 30% depending on the type & quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

SUPER BRIGHT LED WORKLIGHTS / FLOODLIGHTS (CONTINUED)

500 Lumen 10W Rechargeable LED Dimmable Worklight

Features a built-in rechargeable battery so you don't need to be tied to a mains power source, and a dimmable LED so you can adjust the brightness depending on your application, and to extend the time before needing a recharge. Durable high-pressure die cast aluminium shell, high-strength tempered glass cover and silicon covers over the charging port and power switch for dust and water resistance.

SPECIFICATIONS	SL-2809
Charge time	5 hours
Burn time	3 hours
Charging voltage	8.4VDC
Rating	IP65
Power consumption	10W
Colour	Cool white
LED Life	Greater than 50,000 hours
Lens angle	120°
Power input	240VAC
LED module dimensions	109(L) x 115(W) x 87(D)mm



BRACKET CLAMP TO SUIT - SL-2819
Bracket Clamp to suit SL-2809 above.

▲ Lumens	Watts	Cat.	Qty 1+	Qty 5+	Qty 10+
500	10W	SL-2809	\$84.95	\$76.45	\$67.95
Bracket		SL-2819	\$9.95	\$8.75	\$7.75

Solar Rechargeable 5W LED Worklight with USB Charger

Powered by a lithium ion rechargeable battery pack which can be removed from the light and used as a 4400mAh power bank via the 1.0A USB charging port. Includes a mains charger, car charger, and of course the removable solar panel for recharging during the daylight hours.

- IP54 water resistant rated so it's safe if accidentally left out in the rain.

SPECIFICATIONS	SL-2792
LED	5W COB
Lumen output	300
Beam angle	120°
Charge time (Mains or Car)	5 hours
Solar charge time	8 hours
Burn time	3 hours
Charge voltage	9VDC
Weatherproof rating	IP54
USB charge output	5VDC, 1.0A
Dimensions (inc. stand & panel)	245(H) x 170(W) x 250(D)mm



▲ Lumens	Watts	Cat.	Qty 1+
300	5	SL-2792	\$49.95

800 Lumen 8W Rechargeable Portable Floodlight

A rechargeable worklight that utilises the new COB (chip on board) LED technology which packages the LED chips together. When illuminated it looks like a single lighted panel rather than an array of LEDs which can at times be glaring to look at. The packing together of LEDs also means greater light output per square cm. Two lighting settings provide a high brightness (800 Lumens), or a lower illumination (350 Lumens). This unit comes with a recharging dock and can be recharged from a 240VAC or 12VDC source. Can be used in car repairs, roof insulation work, camping, travel and more.

SPECIFICATIONS	ST-3254
LED	Chip On Board
LED Colour	Cool White
Recharge Time	3.5 - 4 hours
Burn Time	Up to 4 hours
Lumens	800 (High), 350 (Low)
Batteries	2 x 3.7V 1800mAh Li-ion Battery Type 18650
Dimensions	230(H) x 194(W) x 64(D)mm (includes bracket)



▲ Lumens	Watts	Cat.	Qty 1+	Qty 5+	Qty 10+
800	8	ST-3254	\$69.95	\$62.95	\$55.95

1,500 Lumen Rechargeable 30W LED Worklight - IP65

Mobile LED work lights for those who need lots of light without a mains connection. They include rechargeable batteries so you can keep one in the car or caravan to shine a huge amount of light on your engine, or a campsite but can also be mains powered if needed. Toughened glass covers will protect the LED from knocks and shield it from the elements. Supplied with mains charger.

SPECIFICATIONS	SL-2886
Burn time	3 hours
Rating	IP65
Efficiency	90%
Colour	Cool white
LED Life	Greater than 50,000 hours
Lens angle	120°
Power input	240VAC (mains charger)
Dimensions	350(L) x 210(W) x 219(D)mm



▲ Lumens	Watts	Cat.	Qty 1+	Qty 5+	Qty 10+
1500	30	SL-2886	\$169.00	\$151.95	\$134.95

LED FLOOD & WORK LIGHTS

COMPARISON GUIDE

		Lumens	Power Input	IP Rating	Charge Time	Run Time	Mount Type	Dimensions (H, W, L)mm	Page
SL-2792		300	Rechargeable Solar	IP54	5 hours mains, 8 hours solar	3 hours	Stand	245 x 170 x 250	481
SL-2815		500	12VDC	IP65			Stand or Wall Mount	115 x 110 x 85	480
SL-2809		500	Rechargeable Lithium	IP65	4 hours	3 hours	Stand or Wall Mount	109 x 115 x 87	481
SL-2876		500	240VAC	IP65			Stand or Wall Mount	115 x 85 x 85	480
ST-3254		800	Rechargeable Lithium		3.5-4 hours	4 hours	Stand	230 x 194 x 64	481
SL-2886		1500	Rechargeable Lithium	IP65	5 hours	3 hours	Stand or Wall Mount	350 x 210 x 219	481
SL-2817		1500	12VDC	IP65			Stand or Wall Mount	225 x 185 x 125	480
SL-2877		1500	240VAC	IP65			Stand or Wall Mount	225 x 185 x 125	480
SL-2866		650	240VAC	IP65			Stand or Wall Mount	142 x 215 x 161	480
SL-2867		2100	240VAC	IP65			Stand or Wall Mount	215 x 290 x 180	480

WORKLIGHTS HANDHELD

100 Lumen Compact LED Worklight

Keep it in the glove box, toolbox, back of the car, kitchen drawer, or anywhere you think you might need to keep such a neat and compact little work light. With 100 lumens of light from 20 SMD LEDs, it has enough light to help find the hidden bolts in your engine bay, or to even be used to light up inside your tent while camping. Features a fold out hook for hanging, and an adjustable arm with magnetic base to attach it to any metal surface. Also has 3 x LEDs at the top to use as a torch.

- Powered by 3 x AAA batteries (included)
- Dimensions: Hook folded: 98(H) x 67(W) x 34(D)mm
With hook extended: 138(H) x 67(W) x 34(D)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
100	ST-3270	\$9.95	\$8.75	\$7.75

180 Lumen COB LED Auto Worklight

A must have handy worklight for every toolbox, workshop or glove box. This versatile worklight can be used comfortably by hand or hands-free using the flip-out hook or strong magnets in the base that adjusts 180° for the best angle. The worklight also doubles as a hand torch using the 6 x white LEDs in the end. Features a chip-on-board (COB) LED for an evenly spread light, switch to toggle between worklight or torch, and a soft rubber finish.

SPECIFICATIONS	ST-3272
LED type	3W COB
Brightness	180 lumens
Battery type	Requires 3 x AA batteries
Dimensions	183(L) x 60(W) x 33(D)mm



▲ Lumens	Cat.	Qty 1+
180	ST-3272	\$12.95

250 Lumen COB Worklight

The sleek body of this worklight resembles a nice remote control, but push the "on button" and you'll light up a room! Powered by 3 x AA batteries, it puts out a huge amount of light, with a good spread to light up what you're doing. The case also features a hang-hook, and magnet in the back to "stick" it to any ferrous metal quickly (ie, the shed wall, a steel beam, a car bonnet, etc).

Awesome!



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
250	ST-3271	\$14.95	\$13.45	\$11.95

250 Lumen COB Worklight with Stand

A rugged rubberised ABS case holds a high power 3W COB LED worklight, as well as an ultrabright LED on one end for use as a torch. A fully integrated stand and hang-hook give you flexibility, and 2 x AA batteries keep you going. It's very lightweight and rugged to go where you want. It also features a magnetic base for super-convenient mounting to most ferrous metals.

- Torch Function

SPECIFICATIONS	ST-3273
Light	3W COB
Lumens	250
Battery	3 x AA (not included)
Weight	244g
Torch Dimensions	225(L) x 50(W) x 40(H)mm
Stand Dimensions	110(H)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
250	ST-3273	\$14.95	\$13.45	\$11.95

300 Lumen Rechargeable COB LED Auto Worklight

A rechargeable worklight that utilises the new COB (chip on board) LED technology which packages the LED chips together. When illuminated it looks like a single lighted panel rather than an array of LEDs which can at times be glaring to look at. The packing together of LEDs also means greater light output per square cm. This unit comes with a recharging dock and can be recharged from a 230VAC or 12VDC source. Can be used in car repairs, roof insulation work, camping, travel and more.

SPECIFICATIONS	ST-3262
LED	Chip On Board
LED colour	Cool white
Recharge time	3.5 - 4 hours
Burn time	Up to 4 hours
Lumens	300
Batteries	3.7V Li-ion included
Dimensions	288(L) x 60(W) x 45(D)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
300	Rechargeable ST-3262	\$69.95	\$62.95	\$55.95

150 Lumen LED Worklight & Torch with Power Bank

Ultra-light but feature packed. 4 x ultra-high power LEDs provide ample worklight power, while a single high power LED acts as a torch when required. You can select from either light, or use both at once. Unscrew the rubber end-cap to reveal a USB charging outlet, as well as a MicroUSB cable for recharging the unit. All packed into an ergonomic rubberised case, it's durable and exceptionally functional. It even features a magnet on the back to quickly "stick" to any ferrous metal (steel, etc) for convenience too!

- Rubberised ABS case
- 2000mAh powerbank with USB outlet
- Dual function worklight / torch selection

SPECIFICATIONS	ST-3257
Body Light	150L
Top Light	50L
Battery	2000mAh
Weight	146g
Dimensions	200(L) x 38(W) x 30(H)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
150	ST-3257	\$29.95	\$26.95	\$23.95

Don't forget to also check out our lanterns starting on page 488

SEARCH LIGHTS

3,200 Lumen HID Search Light with Remote Controlled Pan/Tilt

At the touch of a button pan and tilt a powerful beam of light where you need it, without reaching/stepping outside your vehicle. Plugged into your cigarette lighter socket, it's capable of producing 3200 Lumens of white light reaching over 1000m, making it ideal for use in search and rescue missions, hunting or general spot lighting. You don't have to be stationary to use the light, the base features a magnetic base with rubber pad which ensures strong grip mounted on the roof of your car, 4WD, truck or boat. The remote will even allow you to operate the light up to 100m away; handy for searching on foot, tracking game or doing work around the campsite.

- Wireless remote control (100m range)
- On/off, 360° pan & 120° tilt range

Note: Not ADR approved

SPECIFICATIONS	ST-3377
Power	HID-Xenon 35W
Voltage	12VDC
Colour temperature	6500K
Life	3000 hours
Light output	3200 lumens
Effective Range	1000m+
Base Design	Ferrite magnetic + rubber pad
Dimensions	270(H) x 200(L) x 180(W)mm



▲ Lumens	Cat.	Qty 1+
3,200	ST-3377	\$139.00

3,200 Lumen LED Search Light with Remote Controlled Pan/Tilt

Pan and tilt a powerful beam of light where you need it, without reaching/stepping outside your vehicle. Plugged into your cigarette lighter socket, it's capable of producing 3,200 Lumens of white light reaching over 1000m, making it ideal for use in search and rescue missions, hunting or general spot lighting. The base features a magnetic base with rubber pad which ensures strong grip mounted on the roof of your car, 4WD, truck or boat. The remote will even allow you to operate the light up to 100m away.

- Wireless remote control (100m range)
- On/off, 360° pan & 120° tilt range

Note: Not ADR approved

SPECIFICATIONS	ST-3368
Power	50W
Voltage	12VDC
Colour temperature	6500K
LEDs	10 x 5W High Intensity XTE by Cree
Light output	3200 lumens
Effective Range	1000m+
Base Design	Ferrite magnetic + rubber vacuum pad
Dimensions	230(H) x 185(W) x 150(D)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
3,200	ST-3368	\$269.00	\$239.00	\$209.00

LED SPOTLIGHTS

600 Lumen Rechargeable LED Spotlight with Adjustable Beam

An LED spotlight that's glove box friendly, but still bright enough to be properly considered a spotlight. With a bright 600 lumens of clean white light it can light up objects up to 500m away when adjusted to the tight spot beam. You can then adjust the beam to a wide, even flood beam when you need to light up a wide area. It is shock and vibration resistant, and of course weatherproof (IP65 rated) so you can use it in the rain. Nice and compact, light in the hand, and lasts for hours. Powered by 3 x 18650 Li-ion batteries, and includes mains and car chargers.



SPECIFICATIONS	ST-3316
Light output	600 lumens
Beam distance	up to 500m
Burn time	4 hours (high), 24 hours (low)
Battery	3 x 18650 Li-ion 2,200mAh included
Light modes	high (100%), low (20%)
Dimensions	170(L) x 91(H) x 55(W)mm
Weight	500g



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
600	ST-3316	\$84.95	\$76.45	\$67.95

280 Lumen 4 in 1 Camping Spotlight

A versatile hand held rechargeable worklight for multiple applications around the campsite or backyard. It has a 280 lumen COB Cree® XPG R5 main LED located on the front, which can be set to 280 lumens or 140 lumens for a longer burn time. One side has 12 x SMD2835 LEDs with bright and dim modes for ambient light, and the other side has 12 x SMD2835 LEDs, which produces a flashing red light for emergency situations.

Charge via its USB port using the supplied 80mm USB cable. Also this unit has a USB output socket, enabling you to charge a phone or other electronic device.

The worklight features an attached handle that can be rotated 180°, and can also be used hand free using the stand attached to the bottom.



SPECIFICATIONS	ST-3343
Main light	
Type	1 x Cree® XPG R5
High	280 lumen, runtime: 3 hours
Low	140 lumen, runtime: 6.5 hours
Side light	
LED type	12 x SMD2835 LED
High	80 lumen, runtime: 5-6 hours
Low	45 lumen, runtime: 24 hours
Side light flash	
LED type	12 x SMD2835 LED
Modes	Flash
USB charge input	5V 1000mA
USB output	5VDC 1.5A
Battery type	Built-in 2 x LC18650 3.7V 2200mAh Li-ion batteries
Charging time	7.5 hours
Dimensions	190(L) x 100(D) x 90(W)mm
Weight	410g



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
280	ST-3343	\$49.95	\$44.95	\$39.95

Rechargeable LED Spotlight with Cree® XML LEDs

This rechargeable spotlight with Cree® XML LEDs offers powerful lighting wherever required. Feature three modes of functioning; high, low and strobe. Specially designed to meet portability, durability, and reliability. The body is high quality CNC aluminium, good heatsink, the torch head is made of stainless! Supplied with mains power adaptor.



SPECIFICATIONS	ST-3325
LED type	6 x 10W Cree®
Functioning modes	High, low and strobes
Lumens	2000
Distance	400m
Running time	3 hours
Battery type	3 x 26650 Li-ion batteries (included)
Dimensions	150(L) x 90(W) x 90(D)mm
Weight	552g



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
2,000	ST-3325	\$169.00	\$151.95	\$134.95

700 Lumen Waterproof Rechargeable Spotlight with Cree® XM-L2 LED

At the press of the trigger the powerful Cree® LED outputs up to 700 lumens of bright white light up to 440m!

It is waterproof down to 1m and floats, which makes it ideal for boating, hiking, camping or roadside emergencies.

Designed with a polycarbonate body with shock-absorbent rubber head for use with confidence in mind.

Features a built-in stand for hands-free operation, a carrying strap (included), and a safety lock to prevent unwanted on/off activation.

Charge the built-in Li-Po rechargeable battery via Micro B USB.

Supplied with: Micro B USB

- XM-L2 Cree® white LED- up to 700 lumens
- Produces 440m beam throw
- 4 Lighting modes - high, medium, low, 2Hz flashing
- Safety lock prevents unwanted On/Off activation
- Built-in adjustable stand for hands-free operation
- Buoyant & submersible
- IP67 Waterproof & Dustproof



SPECIFICATIONS	ST-3313
Battery	Built-in 3.7V 3000mAh Li-Po Rechargeable
Charging time	5hrs
Burn time	2.5 hours to 15 hours (depending on mode)
LED type	1 x XM-L2 Cree® White
Dimensions	160(H) x 146(L) x 75(Dia.)mm
Weight	406g



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
700	ST-3313	\$79.95	\$71.95	\$63.95

WATERPROOF SPOTLIGHTS

700 Lumen Waterproof Floating Spotlight

Designed for taking on the boat, fishing trips, etc. It is fully waterproof and will float if it is knocked into the water. Features a lock switch and swing out bracket for when you need hands-free operation. Includes red-LED strobe function too!

The hand strap also includes a whistle for getting attention. Supplied with mains and cigarette lighter charger.



SPECIFICATIONS	ST-3311
Weight	329g
Dimensions	160(H) x 145(D) x 75(Dia.)mm

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
700	ST-3311	\$59.95	\$53.95	

1,500 Lumen Waterproof Floating Spotlight

Designed for taking on the boat. It is fully waterproof and will float if it is knocked into the water. Includes a hand strap that you can tighten so you can't lose it if you find yourself falling overboard.

Supplied with mains and cigarette lighter charger.



SPECIFICATIONS	ST-3327
Burn Time	High: 6.5Hrs, Low: 14Hrs, SOS: 15Hrs
Battery	3 x S1P Rechargeable Lithium 18650 Batteries (11.1V 2200mAh)
Weight	820g
Dimensions	200(H) x 190(D) x 120(Dia.)mm

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
1,500	ST-3327	\$119.00	\$106.95	\$94.95

LED TORCHES

The Americans call a torch a 'flashlight'. Why? Because in the early days batteries were so poor and light globes so inefficient, you could only turn the torch on for a second or so, i.e. "flash" to save the battery and still see where you were going in the dark. Well, batteries got better, but torch globes stayed hopeless but at least we could keep the torch on for a while.

Now almost all torches use LED-type globes. LEDs draw about 1/50th the current of old globes so you can leave the torch on all the time. Even better, LED globes are far, far brighter. Even though we have a comparison table below, you will have difficulty making a mistake when choosing a LED torch. They are all good.



Three Pack 60 Lumen Torches with 6 x AA Batteries

This is a pack of THREE torches complete with batteries.

They are powerful 60 lumen units. You take them out of the packet, load the batteries, test and put in three separate locations so you are prepared for the next blackout.

Better still buy 2 packs and have six separate "hiders". They represent excellent value.



Batteries included



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
60 x 3	ST-3430	\$14.95	\$13.45	\$11.95

190 Lumen Torch with Adjustable Lens with Cree® LED

This Cree® LED torch is encased in a rugged aircraft-grade aluminium that will withstand the rigours of constant use. Tactile switches are standard allowing for momentary on lighting, perfect for signalling across distances in poor light or for quickly checking a map.



- 190 lumens
- Tactical switch
- Multiple light modes
- Adjustable beam

SPECIFICATIONS	ST-3456
Lumens	190
Burn Time	2.4 hours
Dimensions	105(L) x 34(Dia.)mm
Battery (required)	3 x AAA, batteries
Light modes	Max, medium, low, SOS, Blinking
Accessories	Carrying Strap



▲ Lumens	Adjustable	Cat.	Qty 1+	Qty 5+	Qty 10+
190		ST-3456	\$19.95	\$17.95	\$15.95

150 Lumen Adjustable Beam Mini Cree LED Torch

This heavy-duty torch is suitable for any adventure. Small enough to fit into most pockets, yet powerful enough to cast ample light where and when you need it. When you require a focused beam, adjust the light by twisting the handle clockwise. When a wide beam is preferred, simply twist it anti-clockwise. Features two light modes to choose from: high & low. Just press the button at the end of the handle to alternate between the two. The durable design features an o-ring seal to ensure dirt and moisture stay out. Take advantage of the ergonomic handle grip or use the attached clip for hands-free transport and operation.

SPECIFICATIONS	ST-3481
Light modes	High & Low
Lumens	150
Batteries	1 x AA (not included)
Burn Time	10 hours
Beam Distance	120 metres
Beam Angle	5-60°
Dimensions	100(L) x 26(Dia.)mm
Weight	54g (including battery)



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
150	ST-3481	\$10.95	\$9.85	\$8.75

6 x Olson Osram LED Torch

High brightness torch featuring 6 x ultra bright warm white Olson Osram LEDs. Great addition to your fishing tackle box or keep one in the car for emergency situations. Bright yellow plastic so it doesn't go missing.

- Requires 4 x AA batteries
- Dimensions: 190(L) x 60(Dia.)mm



▲ Lumens	Cat.	Qty 1+
300	ST-3486	\$14.95

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

LED TORCHES

COMPARISON GUIDE

	Lumens	Run time (hour)	Power	Rechargeable	Adjustable Beam	Length x Dia. (mm)	Page
ST-3430	60 x 3	-	6 x AA			150	484
ST-3456	190	2.4	3 x AAA		•	105 x 34	484
ST-3490	370	4	Lithium	•	•	150 x 37	485
ST-3498	1000	2	Lithium	•	•	199 x 53	485
ST-3499	2500	2	Lithium	•		244 x 63	485
ST-3463	50	6	4 x LR44			165 x 20 / 550 x 20	485
ST-3466	90	20	3 x AAA			165 x 30	486
ST-3486	300	10	2 x AA			190 x 60	484
ST-3316	600	4	Lithium	•	•	170 x 55	483
ST-3325	2000	3	Lithium	•		150 x 90	483
ST-3313	700	2.5	Lithium	•		160 x 75	483
ST-3343	280	3	Lithium	•		190L x 100D x 90W	483

LED TORCHES (CONTINUED)

370 Lumen USB Rechargeable LED Torch - Adjustable Beam

A great little LED torch with 370 lumens of bright white light, and a slide adjustable beam to go from a wide flood beam to a narrow spot beam. Features a 2,200mAh lithium ion 18650 rechargeable battery, which you can recharge inside the torch by plugging into any USB port. Charge it off your computer or the charger from your mobile phone - USB charging is literally everywhere! Add to that the tactical style switch, multiple operating modes (100%, 50%, and SOS) and it's a winner.

SPECIFICATIONS ST-3490					
Lumens	370				
Burn time	4 hours (at 100%)				
Battery	1x 18650 Li-ion 2200mAh included				
Light modes	High, low, SOS				
Dimensions	150(L) x 37(Dia.)mm				



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
370 Adjustable	ST-3490	\$29.95	\$26.95	\$23.95

400 Lumen 8W Cree® LED Torch

Made from lightweight aluminium, packing a huge punch with an 8W CREE® LED. Features high/low selection. Burn time is a massive 5+ hours, up to 10hrs in low power mode. Very durable and so bright. For this price, you'll want more than one!

SPECIFICATIONS ST-3477					
Lumens	400				
Burn Time	5 hours (at 100%)				
Batteries	3 x AAA required				
Light Modes	High, low				
Dimensions	132(L) x 35(Dia.)mm				



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
400	ST-3477	\$29.95	\$26.95	\$23.95

500 Lumen 8W Cree Torch - Large Beam Adjustment

The rugged, aircraft-grade aluminium body and powerful lumen rating makes this the perfect torch for lighting your way in the great outdoors. The o-ring seals ensure dirt and moisture stay out, while the ergonomic, non-slip handle ensures you maintain a tight grip at all times. Alternate between high and low light modes with the press of a button. Once you've selected your preferred light mode, pull out the handle to increase the angle of the beam, then simply push the handle back in when a tighter beam is preferred. Supplied with a wrist strap for the option of hands-free operation.

- 2 Light Modes: High & Low
- Weatherproof: Water & Dust Resistant
- Heavy Duty Construction: Aircraft-Grade Construction

SPECIFICATIONS ST-3476					
Lumens	500				
Batteries	3 x AA (not included)				
Burn Time	10 hours				
Beam Distance	Up to 470 metres				
Beam Angle	0-70°				
Dimensions	150(L) x 55(Dia.)mm				
Weight	273g (including battery)				



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
500	ST-3476	\$39.95	\$35.95	\$31.95

SPECIALTY TORCHES

Super Bright LED Torch with Magnetic Head & Telescopic Neck

A pen-sized torch with super bright LEDs and magnetic head for picking up objects. The torch head is attached to a telescopic mast hidden away inside the casing. Fully extended the torch has a total length of 546mm allowing your search into cracks and crevices. A gooseneck at the end allows you to shine light around corners & pick up metallic objects out of reach.

- Requires 4 x LR44 batteries (included)
- Dimensions: 165(L)mm to 550mm (neck fully extended); 20mm torch head diameter)



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
50 Telescopic	ST-3463	\$12.95	\$11.35	\$10.35

1000 Lumen Rechargeable LED Torch - Adjustable Beam

A fully rechargeable tough aluminium alloy torch for your next hunt, or outback journey. Inside is a powerful Cree® XML2-T6 and features a zoom function so targets can be focused on. Modes include high, low, and strobe. Can be recharged with the supplied mains charger.

SPECIFICATIONS ST-3498					
Lumens	1000				
LED	Cree® XML2-T6				
Lighting distance	391m				
Burn time	2h				
Light modes	High, low, strobe				
Powered by	1 x 26650 Li-ion battery (included)				
Dimensions	199(L) x 53(Dia.)mm				



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
1000	ST-3498	\$59.95	\$53.95	\$47.90

2,500 Lumen Rechargeable LED Torch

Super bright 2,500 lumen aluminium alloy torch for camping, caving, hunting, or hiking. Fully rechargeable with the supplied mains charger. Ideal for burning the flesh off vampires and other light sensitive creatures.

SPECIFICATIONS ST-3499					
Lumens	2,500				
LED	Cree® XML2-U2				
Lighting distance	400m				
Burn time	1.5- 2hour				
Light modes	High, low, strobe				
Powered by	2 x 26650 Li-ion battery (included)				
Dimensions	244(L) x 63(Dia.)mm				



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
2,500	ST-3499	\$139.00	\$124.95	\$110.95

Blocklite 9V Battery Light

The torch unit itself is uniquely designed to clip onto a standard 9V battery. Selectable 2 or 6-LED operation. Even though it'll feel like the battery lasts forever, once it finally runs flat, just replace with any standard 9V battery.

- 2 or 6 LED mode
- Over 30hrs burn time

SPECIFICATIONS ST-3367					
Battery	9V Alkaline				
Weight	7g (excluding battery - approx 45g with battery)				
Dimensions	24(H) x 24(W) x 15(D)mm (excluding battery) 69(H) x 24(W) x 15(D)mm (including battery)				



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST-3367	\$7.95	\$7.15	\$6.35

BATTERIES

TECH TALK

In the past, with incandescent globes there was a good case for professional users (night watchmen, etc.) to use rechargeable batteries in torches. Nowadays, with LEDs drawing such a small amount of current, it's hardly worthwhile. If you use a good Alkaline or non-rechargeable Lithium battery you can get years of life in occasional-use applications so why bother with rechargeable?

4 in 1 Dynamo Radio (FM/AM) Torch Hand Crank Emergency Charger

Features a dual-function torch (single 0.5W LED or dual high brightness LEDs), FM radio & siren. All are powered from an internal battery, which can be recharged via USB, or by cranking the dynamo handle. There's a USB charging outlet to provide critical power to your phone in an emergency too. If you find yourself with nothing but hand-power, the dynamo will give you over 10-minutes of radio or torch functionality, or two minutes of siren. On a full charge they'll run for much longer.

- Internal Lithium Polymer (LiPo) Battery
- Dynamo Crank Power Backup
- Dual-Function Torch & FM Radio
- Emergency Siren

SPECIFICATIONS AR-1771					
Battery	3.7V 480mAh LiPo				
Charge Time	Approx 2hrs				
Working Time	0.5W LED: ≥4hrs, LED: ≥10hrs, Radio: ≥5hrs, Siren: ≥70min				
Light Output	≥30 lumens (0.5W LED), ≥6 lumens (High Brightness LED)				
Emergency Siren Output	≥120dB				
Frequency Range	FM 88-108MHz AM 522 - 1620kHz				
USB Charging Current	5VDC @ 0.4A Max				
Dimensions	158(L) x 50(W) x 33(D)mm, 171g				



▲ Lumens	Cat.	Qty 1+	Qty 4+	Qty 10+
30	AR-1771	\$29.95	\$26.95	\$23.95

SPECIALTY LED LIGHTING

Mini COB Carabiner Light

A pocket sized LED COB (Chip on Board) light that can be attached to a metal surface via the built in magnet or fastened with the attached carabiner. Toggle between high and low level with a maximum of 40 lumens. Available in 4 different coloured casings - red, yellow, blue and silver.

- Powered by 2 x CR2032 batteries (included)
- Dimensions: 70(L) x 30(W) x 25(H)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
40	ST-3472	\$4.95	\$4.45	\$3.95

160 Lumen COB LED Work Light & Torch

Ultra light and compact, with a handle belt / pocket clip. Quickly select between worklight mode and torch mode, depending on your requirements. It's made from rubberised plastic so it's durable, but comfortable in your hand too. It also features a small magnet on the back to quickly grab on to any ferrous metal for handsfree operation.

- Worklight or torch mode
- Ultra bright & energy efficient
- Magnetic and belt clip

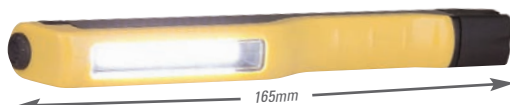


SPECIFICATIONS ST-3471				
Requires	3 x AAA Batteries			
Dimensions	175(L) x 34(W) x 14(H)mm, 82g			

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
160	ST-3471	\$9.95	\$8.95	\$7.95

90 Lumen Pen Light with COB LED

A nifty little pen LED light with pocket clip so you can have it illuminate in front of you while keeping both hands free. The COB (chip-on-board) LED provides a wide spread cool white light and runs up to 20 hours using 3 x AAA batteries. Available in yellow and orange colours.



SPECIFICATIONS ST-3466				
Requires	3 x AAA batteries			
Burn time	Up to 20 hours (using Alkaline)			
Lumens	90			
Dimensions	165(L) x 30(D) x 16(W)mm			

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
90	ST-3466	\$6.95	\$6.25	\$5.55

BIKE, CYCLE & SAFETY LIGHTS

Flexible LED Safety Lights - Pair

A pair of handy press-down LEDs that have two modes of operation, blinking and constant on. A great little accessory to enhance your personal safety while riding a bike at night. Each LED is encased in flexible silicone that can be wrapped around bicycle handlebars or a helmet strap.

- Each unit includes 1 x CR2032 battery
- Dimensions: 75(L) x 29(W) x 29(H)mm



▲ Pair	Cat.	Qty 1+	Qty 3+	Qty 6+
	ST-3136	\$9.95	\$8.75	\$7.75

300 Lumen Rechargeable Bike Light

Surprisingly powerful for such a compact unit, it features an integrated 800mAh Li-Po battery. It offers three light modes (high/low/flashing) to suit your application. A flexible silicon rubber strap holds it firmly in place, while enabling versatile mounting. If the battery runs low, use the included MicroUSB cable to recharge.

- MicroUSB to USB recharge
- Versatile mounting
- Lightweight



SPECIFICATIONS ST-3259				
Battery	800mAh Lithium Polymer Battery			
Burn Time	High: 2hrs, Low: 4hrs, Flashing: 8hrs			
Weight	50g			
Dimensions	66(L) x 29(W) x 22(H)mm			

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
300	ST-3259	\$24.95	\$22.45	\$19.95

Universal Goose Neck Work/Camping Light

Equipped with a magnet on the base and a flexible gooseneck, this powerful COB LED lamp can be attached and positioned to project the light to exactly where you want it.

- 1W power consumption
- 120 lumen output
- Powered by 3 x AAA batteries (not included)
- Dimensions: 200(L) x 30(Dia)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
120	ST-3470	\$9.95	\$8.95	\$7.95

Beanie with Rechargeable LED Head Lamp

The powerful 80 lumen LED light features three light modes: low, medium and high. The light can easily be removed for beanie-washing, or recharging. Plugs directly into a compatible USB port to recharge. A four hour recharge delivers up to four hours of continuous light*. The elasticised knitted beanie fits comfortably and does away with the annoying strap adjustments of other head torches. The ultimate accessory for outdoor adventurers (and people with cold heads).

*Performance may vary with temperature and charge level

SPECIFICATIONS ST-3214				
Lumens	80			
Light Modes	Low, Medium & High			
Battery	400mAh Li-ion			
Burn Time	4 hours			
Input Power	5V @ 100mA			
Dimensions	65(L) x 50(W) x 14(H)mm (light), 90g			

▲ Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
80	Black	ST-3214	\$19.95	\$17.95	\$15.95
80	Grey	ST-3215	\$19.95	\$17.95	\$15.95

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Super High Brightness LED Bike Safety Light

This light features 10 LEDs in two rows of 5. Each row of LEDs can be controlled individually. Row light modes include steady on, flashing, and fast/slow light oscillation. Or alternated, so one row can be steady on while the other row is flashing or any combination. Includes an internal reflector which helps intensify the brightness of the LEDs.

- Requires 2 x AA batteries
- Dimensions: 95(L) x 85(W) x 40(H)mm



▲ Bike Safety	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST-3083	\$9.95	\$8.75	\$7.75

Rechargeable Bike Air Horn

For when the bike bell isn't loud enough. This Canadian-made product can be recharged with the nifty air pump supplied. (It can also pump-up push bike tyres.) You pump up the air reservoir (which looks like a PET bottle but is much stronger) and you then have a VERY loud 120dB horn warning/alerting device. Each recharge lasts about 50 short blasts.

- Volume control switch
- Handle bar mount (24 - 31mm)
- 800mm hose length
- Weighs under 100g



▲ Bike Air Horn	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1113	\$49.95	\$44.90	\$39.90

LED HEAD TORCHES

80 Lumen LED Head Torch with 2 Red LEDs

This multi-function head torch with adjustable head band includes a 3 watt white LED and 2 high brightness red LEDs. The ratchet in the headband tilts the light to where you need it. Use the power button to toggle between four light modes.

- Light Modes: High beam white, low beam white, continuous red, flashing red
- 3W - Requires 3 x AAA batteries
- Dimensions: 60(L) x 45(W) x 35(D)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
80	ST-3209	\$9.95	\$8.75	\$7.75

120 Lumen Ultra Bright COB Head Torch

This COB (Chip on board) head torch provides a very bright, wide, and uniform 120 Lumens of light (unlike other LEDs that emit directional light). COB LED technology has increased efficiency and life span when compared to other LED technology. Great for tinkering on the car at night, cooking snags on the campfire, in around the campsite, or just reading a book. Incorporating a comfortable and adjustable elastic strap. Made from shock resistant ABS plastic, this unit is built to last.

SPECIFICATIONS	ST-3211
Light modes	High and Low
Batteries	3 x AAA required
Dimensions	57(W) x 44(D) x 40(H)mm
Weight	67g with batteries



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
120	ST-3211	\$12.95	\$11.65	\$10.35

180 Lumen Head Torch with Red LEDs - Rechargeable

This unique head torch features a high power 3W white LED as well as two ultra-bright red LEDs. They can be set independently for different modes. Select from high/low/flashing mode for the white LED, and constant/flashing modes for the red LEDs. The hinged bracket allows angle adjustment to optimise the light where you need it.

- Weatherproof IPX4
- Dual Switch Control
- Rechargeable

SPECIFICATIONS	ST-3277
Burn Time	4hrs High / 30hrs Low
Charge Time	6hrs
Weight	55g (excluding head strap)
Dimensions	55(L) x 35(W) x 35(D)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
180	ST-3277	\$19.95	\$17.95	\$15.95

260 Lumen Adjustable Head Torch with Cree® LED



Three modes of operation - high, low and strobe. The beam can be focused quickly from wide to spot by simply sliding the zoom in or out. Comfortable elasticised head strap.

SPECIFICATIONS	ST-3213
Burn time	7hrs
Light modes	High, low, strobe
Water resistant	Yes
Batteries	3 x AAA (not included)
Dimensions	65(D) x 60(W) x 40(H)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
260	ST-3213	\$19.95	\$17.95	\$15.95

250 Lumen LED Head Torch with Red & Green LEDs

Designed with two distinct light sources to suit different uses. The first is a powerful Cree® LED for long range / torch style illumination when hiking or searching etc. The large COB LED can then be operated in white, red or green modes. This provides you a broad flood-style light which is perfect for more general illumination. Red and green modes are especially useful in adverse conditions. All bundled into a shock-resistant case for durability. A small red light and whistle is also included on the head-strap as an additional emergency feature.

SPECIFICATIONS	ST-3210
Batteries	3 x AAA required
Burn time	16 Hours
Ingress Rating	IP44
Dimensions	67(W) x 46(H) x 35(D)mm (Excluding Strap)



▲ Lumens	Cat.	Qty 1+	Qty 6+	Qty 12+
250	ST-3210	\$24.95	\$22.45	\$19.95

550 Lumen Head Torches - Adjustable Beam & Cree® XML LED

Will output 550 lumens of bright white light which is more than enough for all of the above and more. The headstrap is adjustable and the light beam can be adjusted to suit your needs. To operate simply press the push switch on the battery pack mounted on the back of the head strap. Dimensions: 80(W) x 70(H) x 55(D)mm. ST-3299 includes charger and mains power supply.



SPECIFICATIONS	ST-3298	ST-3299
Battery	Requires 4 x AA batteries	18650 Li-ion Rechargeable
Recharge Time	-	4 hours
Burn time	4 - 5 hours	4 - 5 hours
Light Modes	High, dim, flashing	High, dim, flashing



▲ Lumens		Cat.	Qty 1+	Qty 10+	Qty 25+
550	Takes 4 x AA Batteries	ST-3298	\$29.95	\$26.95	\$23.70
550	Rechargeable	ST-3299	\$49.95	\$44.90	\$39.90

LED HEAD TORCH

COMPARISON GUIDE

	ST-3209	ST-3211	ST-3277	ST-3213	ST-3210	ST-3298	ST-3299
Lumens	80	120	180	260	250	550	550
Run Time (hour)	5	4	4	7	16	4	4
Power	3 x AAA	3 x AAA	Li-Po	3 x AAA	3 x AAA	4 x AA	Lithium
Rechargeable			•				•
Adjustable Beam				•		•	•
Length x Dia. (mm)	60W x 45H x 35D	57W x 40H x 44D	55L x 35W x 35D	60W x 40H x 65D	67W x 46H x 35D	80W x 70H x 55D	80W x 70H x 55D

LANTERNS

30 Lumen Camp Light with Carabiner

A handy LED light in the shape of a traditional light bulb perfect for ambient light in your tent, kids cubbyhouse or cabin. Hang using the integrated D-hook or supplied carabiner.



NEW 2017

1 YEAR WARRANTY

SPECIFICATIONS		ST-3158
3 light modes	High, low, flashing	
Requires	1 x AA battery	
Dimensions	100(L) x 60(Dia.)mm	

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
30	ST-3158	\$9.95	\$8.95	\$7.95

150 Lumen Mini LED Lantern with Magnet & Hook

A versatile mini portable LED lantern which can sit flat on a table, mount to a metal surface with the built-in strong magnet, or hang using the nifty fold-out hook with clip. A push button in the base cycles the light through high, medium and low brightness, as well as slow or fast flash when used as a safety light. The frosted lens provides an evenly spread light. Perfect for garages, closets, camping, boating, fishing and so on.



1 YEAR WARRANTY

- Light source: 3 high brightness LEDs
- Power: Requires 3 x AAA batteries
- Dimensions: 65(Dia.) x 37(D)mm

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
150	ST-3424	\$10.95	\$9.85	\$8.75

300 Lumen Collapsible Lantern with Magnetic Base

Ultra-convenient and clever design allows the lantern to collapse down when not in use. Pop it up and switch it on, and the three ultra-bright COB LEDs provide stunning brightness. The lantern is designed with a metal hanging handle, as well as magnets in the base to hold on any ferrous metal such as a car, steel pole, etc.



NEW 2017

1 YEAR WARRANTY

SPECIFICATIONS		ST-3130
Batteries	3 x AA required	
Weight	290g	
Dimensions	Closed: 128(H) x 85(Dia.)mm Open: 185(H) x 85(Dia.)mm	

▲ Lumens	Cat.	Qty 1+	Qty 6+	Qty 12+
300	ST-3130	\$14.95	\$13.45	\$11.95

280 Lumen Lantern with Red LED Flasher

Featuring three ultra-powerful COB LEDs for an ultra-bright 280 lumen output, to light up your campsite. It also incorporates 6 x red flashing LEDs into the top, for use in an emergency. High / low brightness selection. Also features a metal hang-hook which is very handy. Requires 3 x AA batteries.

- 3 COB LEDs
- Handy Hang-hook



NEW 2017

1 YEAR WARRANTY

SPECIFICATIONS		ST-3426
Batteries	3 x AA	
Dimensions	160(H) x 80(Dia.)mm	

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
280	ST-3426	\$19.95	\$17.95	\$15.95

15 Lumen Solar Bottle Lamp

This is the ultimate go-anywhere lighting accessory. Weighing in at just 34g, it's an ultra compact LED lantern that screws on to most screw-top bottles to act as a light diffuser and stand! If you want to hang it up, you can use the detachable lanyard. With a high/low brightness switch you can keep things bright, or dim it down to conserve battery power. Inside you'll find a bright LED powered by a lithium battery. The built-in polycrystalline solar panel will recharge it in 4-5hrs, and you'll get up to 16hrs of light from a full charge.

- Ultra Lightweight
- Compatible with Standard-Mouth Water and Soft Drink Bottles



NEW 2017

1 YEAR WARRANTY

SPECIFICATIONS		ST-3156
Light Output	15 lumens high / 3 lumens low	
Burn Time	4hrs high / 16hrs low	
Recharge Time	4-5hrs	
Solar Panel	Polycrystalline	
Battery	3.7V 180mAh lithium	
Dimensions	63(W) x 52(D) x 80(H)mm	
Lanyard Length	50cm	

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
15	ST-3156	\$19.95	\$17.95	\$15.95

100 Lumen Collapsible Solar Lantern

A multipurpose lantern with a waterproof storage bottle to keep your phone, keys, medicine, etc. dry. When not in use, the 737ml silicon bottle collapses down by over half its height.

The internal battery can be recharged from the sun using the built-in solar panel, or from a USB power source with the supplied USB cable.



NEW 2017

1 YEAR WARRANTY

SPECIFICATIONS		ST-3155
Burn Time	Up to 5hrs	
Waterproof Rating	IPX6	
Dimensions	92(Dia.) x 70(L) collapsed / 170(L)mm extended	

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
100	ST-3155	\$24.95	\$22.45	\$19.95

60 Lumen Survival Torch, Lantern, Fire Starter & USB Power

You can't really call it a multi-tool, or a torch, an emergency power source, or a fire-starter - because it's all of those things in one! It's the ultimate survival tool and a must-have for every bug-out bag. First you'll find a selection of light source; torch or lantern. Next you'll see that these will never run flat, because there's a dynamo handle built-in to the case. It can be used to recharge the internal lithium battery (of course when you're at home you can plug it in to recharge too).

The lithium battery also provides a USB port for recharging a phone or other device to call for help. Perhaps most importantly... FIRE! A small coil-pack provides you with a red-hot igniter that'll get a fire started in just minutes, which could potentially save you from at least a very cold night! A spring clip can attach it to your bag or belt, and you'll also find a very sharp serrated blade, and a can opener. A must have for every survival kit!

- Rapid-heating fire starter coil
- Internal lithium battery with dynamo backup
- Torch or lantern
- USB charging port
- Sharp knife and can opener



NEW 2017

1 YEAR WARRANTY

SPECIFICATIONS		TH-1942
Light Output	60-Lumen Torch / 20-Lumen Lantern	
USB Charging	0.5A Max	
Battery	500mAh 3.7V Lithium	
Dimensions	119(L) x 47(Dia. approx)mm, 192g	

▲ Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
60	TH-1942	\$34.95	\$31.45	\$27.95

130 Lumen Solar Lantern & Powerbank

This compact and efficient lantern is not only a delight to look at it is a delight to use. It uses 3 x AAA batteries (Alkaline or rechargeable recommended). It will give 8.5+ hours of light on a new set of alkalines - and that's on high setting. You get even longer life on the lower light (which is still quite bright) setting. It can also be used for roadside emergencies with the 6 x red flashing light setting.

Also featured is a stainless steel hook/handle and an 'O'-ring seal for keeping the battery compartment dry. The unit measures 160(H)mm x 80(Dia.)mm. The LEDs are protected by a clear polycarbonate cover. IP44 weather resistant.



NEW 2017

1 YEAR WARRANTY

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
130	ST-3423	\$49.95	\$44.95	\$39.95

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LANTERNS (CONTINUED)

500 Lumen LED Classic Lantern

Lasts up to 10 days on low setting, or up to 3 days set to its super bright 500 lumen cool white setting. It is made from impact-resistant ABS plastic and drop tested to 1m, and will survive a rain shower with its IPX4 weatherproof rating. The top rim of the lantern glows-in-the-dark, so you can still find your way about the tent or room after you turn it off.

SPECIFICATIONS	ST-3420
Lumens	500
4 light modes	High, medium, low, flashing
Requires	6 x AA alkaline batteries
Dimensions	150(L) x 60(Dia.)mm



NEW 2017

1 YEAR WARRANTY

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
500	ST-3420	\$34.95	\$31.45	\$27.95

250 Lumen 5000mah Waterproof Lantern & Powerbank

This versatile lantern provides a totally waterproof unit, incorporating a USB powerbank. It provides low/medium/high light output with 10 high power LEDs, as well as a flashing red emergency beacon. Unscrew the end-cap for recharging and to provide a USB port to charge your phone, or any USB device in an emergency. Emergency flashing mode lasts up to 60hrs too! Note: USB Ports are not waterproof.

- Waterproof IPX8
- Selectable brightness
- USB powerbank port

SPECIFICATIONS	ST-3131
Lumens	250
Burn Time	Low: 60hrs, Med: 16hrs, High: 8hrs, Emergency Flash: 60hrs
Recharge Time	4hrs (at 2A)
Colour Temperature	5500K
Battery	3.7V 5,200mAh
Dimensions	160(L) x 35(Dia.)mm, 153g



NEW 2017

1 YEAR WARRANTY

▲ Lumens	Cat.	Qty 1+	Qty 4+	Qty 10+
250	ST-3131	\$29.95	\$26.95	\$23.95

360 Lumen 10000mah Waterproof Lantern & Powerbank

This attractive tubular style light has a row of white LEDs that can be switched to 3 brightness levels. It can also be switched to activate a multi-coloured flashing bar, for say roadside emergencies. It also comes with 2 x mounting clips. These clips have magnets in their respective bases and provision to screw the clips in place permanently with blind holes. It is charged via a USB source but it can also be used as a USB power source for mobile phones and other USB powered products. The built-in Li-ion battery will last in various modes from 8 to 60 hours.

SPECIFICATIONS	ST-3132
USB Output	5V @ 2.1A
Dimensions	230(L)mm x 35(Dia.)mm
Weight	160g



NEW 2017

1 YEAR WARRANTY

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
360	ST-3132	\$39.95	\$35.95	\$31.95

SPECIALITY LIGHTING

Folding, Rechargeable Tripod LED Worklight

The ultimate work or floodlight! This stand-alone portable light is designed so that the entire unit compacts into 800mm in length and extends into a light on a tripod up to 1.8m in height. Equipped with two Cree® XML T6 on a tilting head, it will produce a blinding 1200 lumens of light. There are three light modes; high, low and SOS. The unit has a removable rechargeable battery pack that is charged on the supplied docking charger. Comes with a carry bag to fit the light, cigarette charger and mains charger. An amazing all in one solution for all your lighting requirements.

- Supplied with 7.4V Li-ion 4400mAh removable battery pack
- Rainproof/IP53
- 2pcs Cree® T6 super bright LED fixtures included
- Includes carry bag etc.
- Includes 240V AC charger & 12V cigarette lighter charger lead



SPECIFICATIONS	SL-3240
Charging time	2.5 hours
Run time	3.0 hours
Lumens	1200 lumens (high), 600 lumens (low)
Dimensions folded	800(L) x 120(Dia.)mm



1 YEAR WARRANTY

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
1200	SL-3240	\$249.00	\$225.00	\$198.95

300 Lumen LED Lantern

This is a fantastic lantern for the serious camper. The first thing you notice is its solid and rugged construction, which is IPX4 rated so it can handle being left out in light rain. The illuminated push button switch cycles through 100%, 50% and 25% brightness. Features non-slip carry handle, fold-out metal hang clip and non-slip rubber base and runs for up to 15 hours from 3 high capacity D cell batteries.

SPECIFICATIONS	ST-3422
LEDs	4 x Cool White LED + 1 x Red LED
Brightness	15,000 - 16,000mcd
Lumens	300 max
3 brightness modes	100%, 50%, 25%
Battery	Requires 3 x D batteries - alkaline recommended
Waterproof	IPX4
Dimensions	180(H) x 95(Dia.)mm, 560g



1 YEAR WARRANTY

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
300	ST-3422	\$24.95	\$22.35	\$19.70

600 Lumen LED Lantern with Cree® XML LED

A super bright LED Lantern using the powerful Cree XML LED. Features a Cree blinding 600 lumens of cool white light with adjustable light intensity and flashing options. It is in a double moulded shock resistant case, perfect for a campsite, backyard or outdoor entertainment area.

- Cool White
- Weatherproof (IP44)
- Requires 6 x D batteries



1 YEAR WARRANTY

SPECIFICATIONS	ST-3137
Multifunction	High / Medium / Flashing / Off
Burn time	Up to 7 hours (High)
Dimensions	240(H) x 125(W) x 125(D)mm, 780g



▲ Lumens	Cat.	Qty 1+
600	ST-3137	\$19.95

520 Lumen Floating Rechargeable Lantern & Powerbank

Designed for use around a swimming pool, spa, fishing spot, etc. It is submersible to 1m, floats and can even handle a 2m drop. Twist the spring loaded base to reveal a USB port to charge your Smartphone (using your own cable). A carabiner in the base allows you to hang the light.

- Charges via USB
- Built-in Li-Po battery

SPECIFICATIONS	ST-3421
Lumens	520
4 light modes	High, medium, low, flashing
Burn time	6h (high), 16h (med), 48h (low)
Dimensions	143(L) x 70(Dia.)mm
Weight	258g



NEW 2017

1 YEAR WARRANTY

▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
520	ST-3421	\$79.95	\$71.95	\$63.95

7W Security Light with Solar Recharging

Featuring a 7W COB LED for massive 1,000 lumen white light output, with an integrated PIR motion detector to switch the light on only when movement is detected. An integrated battery is recharged using the included solar panel, which can be mounted up to 4m away for optimum sunlight. The system is rated at IP65 to stand tough against poor weather. Includes everything to install, including mounting hardware.

- High / low light selection
- No mains power required
- Fully self-contained



NEW 2017

SPECIFICATIONS	SL-2799
Light Output	High: 1,000 lumens Standard: 500 lumens
LED Power	7W
Battery	3.7V 1,800mAh Li-ion
Weatherproof Rating	IP65
Working Time	High Mode: Up to 2hrs Standard Mode: Up to 4hrs
Detection Distance	Up to 10m
Weight	509g
Dimensions	154(W) x 183(H) x 86(D)mm



1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	SL-2799	\$79.95	\$71.95	\$63.95

NOOK SENSOR LIGHTS - BATTERY POWERED

Due to the massive efficiency of LED coupled with miniaturised movement detectors a whole new class of convenient and compact lighting gadgets have become available. These very compact devices can fit in a small dark space and light it up for you and turn off automatically when you depart. There is no need for expensive mains wiring to be fitted. They all work from

Ultra-Compact LED Sensor Light

This unit measures only 80 x 75mm square and 28mm deep. It runs on 3 x AA batteries (not supplied) and has a keyhole mounting slot so only one screw (No. 6 self taper) is required.

- Attractive 2-tone case (black/white)
- Sensor on-time 60secs approx.
- Our smallest unit



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
18	SL-3505	\$14.95	\$13.35	\$11.70

Extra Bright LED Sensor Light

This unit is tubular in outward appearance, measuring 255(W) x 22(Dia.) x 30(H)mm. It features a sturdy, stainless steel mounting bracket. The design allows the light to rotate even though the bracket is screwed to a surface. The movement detector rotates on the same axis as the 9x High efficiency white LEDs. (The LEDs sit behind a diffuser for even light. The unit is powered by 3 x AA batteries (not supplied). Sensor on time 60 seconds approx.



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
80	SL-3506	\$19.95	\$17.95	\$15.95

low cost penlite-type batteries which can last for years. You can stick them anywhere with double-sided tape or even hang them from a nail driven in a wall. They are ideal for clothes cupboards, shower recesses (safe), pantries, in boats, caravans and motor homes.

Compact Swivel LED Sensor Light

This unit, which is moulded in an attractive gun metal grey plastic, measures 178 (W) x 60(D) x 23 (H)mm. It contains space for 3 x AAA batteries (not supplied) but also has a DC socket for a 4.5V mains adaptor. A separate fitting allows screw fitting to a flat surface. The swivel-adjustable movement detector has 6 x high-efficiency white LEDs in the same housing. Sensor 'on' time 60 seconds approx.



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
22	SL-3507	\$19.95	\$17.95	\$15.95

Hook Mount LED Sensor Light

This unit which measures 300(W) x 30(H) x 23(D)mm features an adjustable movement detector. It has ON/OFF/AUTO (movement detector switched on auto) and a bright light thanks to a bar of 5 x white high efficiency LEDs. It is powered by 6 x AA alkaline cells (not supplied). White in colour overall. It also has a large hanging hook (which is big enough to fit over a clothes railing). An ideal clothes wardrobe light. Sensor on time 60 seconds approx.



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
200	SL-3508	\$24.95	\$22.45	\$19.95

BATTERY POWERED

Remote Controlled LED Puck Light Kit with 3 Lights

This set of 3 puck lights are remote controlled - great for areas where the light is out of reach. Each light has 6 x 2835 SMD cool white LEDs produce a total of 35 lumens. They can be used in kitchens, on shelving, in closets or even in the workshop.

The supplied remote control has four buttons - ON / OFF / 30min timer / 50% Brightness.



SPECIFICATIONS	SL-3502
LED type	2835 SMD
Lumens	35 each
Remote Distance	10 metres
Battery	Each requires 3 x AAA, remote requires 2 x AA
Dimensions	104(L) x 72(W) x 29(D)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
35 x 3	SL-3502	\$29.95	\$26.95	\$23.70

Wall Mount Easy Switch LED Light

A no nonsense light that mounts onto a wall using the supplied double-sided tape, built-in magnets or screw mounting eyelets.

Click the large switch to illuminate the bright cool white light.



SPECIFICATIONS	ST-3258
Lumens	200
Requires	4 x AAA batteries
Burn time	up to 3 hours
Dimensions	115(L) x 75(W) x 22(D)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
200	ST-3258	\$9.95	\$8.95	\$7.95

SOLAR CHARGED

Window Mount Solar Rechargeable LED Puck Light

Designed to suction cup mount onto a window so that the rear mounting solar panel charges the internal battery during the day. Turn on the 3 x built-in bright white LEDs by simply pressing the front lens, press again to turn off.

- Solar rechargeable
- Easy one-touch ON/OFF operation
- Battery type: Built-in Ni-MH
- LED colour: Cool white
- Dimensions: 72(Dia.) x 23(D)mm



▲ Lumens	Cat.	Qty 1+	Qty 5+	Qty 10+
10	SL-3500	\$9.95	\$8.95	\$7.95

LED Light with Soft Touch Switch

Installs in seconds, without wiring. Touch-sensitive on/off operation so there's no fumbling for a switch in the dark. Includes self-adhesive pad. Uses a bright LED light for energy efficiency. Pack of two lights.



SPECIFICATIONS	SL-3501
Lumens	15
Battery	Requires 3 x AAA batteries each
Dimensions	28(H) x 76(D)mm



▲ Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
15	SL-3501	\$9.95	\$8.95	\$7.95

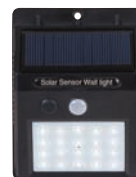
Solar Motion 20XLED Wall Light With PIR & Night Sensor

Fantastic technology for set-and-forget convenience, and security. An all-in-one tidy unit that charges by day, and illuminates by night.

The built-in motion sensor means it's not needlessly wasting its stored power, and 20 x LEDs illuminate the area with bright white light.

Of course there's a night sensor to ensure the unit doesn't operate through the day too.

- Wall mounting
- Includes installation kit.



SPECIFICATIONS	SL-3503
Lumens	180
Solar Panel	0.55W
Battery	3.7V 800mAh
Light Sensor	<10 Lux
Motion Detector Angle	120°
Motion Detector Distance	3m
Dimensions	95(W) x 124(H) x 48(D)mm

▲ Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
180	SL-3503	\$19.95	\$17.95	\$15.95

LED CABIN LIGHTING - 12/24VDC

LED lighting fixtures are ideal for areas that do not have mains power. LED lights draw such a small amount of current for their light output battery power (generally AA cell is all that is necessary). Indeed many fixtures have inbuilt battery compartments or simply require a 12V source.

Mini LED Light

Pre wired in a sleek and compact design, this is a perfect mini LED light for illuminating harsh areas. Using new advanced lens technology the LEDs increase light output for optimal lighting with minimal power. The 12 volt light draws 10% of the power of conventional lights. Sealed stainless steel construction allow for placement in tight spaces and harsh environments. Horizontal and vertical mounts provide a variety of mounting options. Can be used in step, board, accent lighting as well as marine applications!

- White powder coated finish
- 12VDC
- Dimensions: 39(W) x 12.7(H) x 12.7(D)mm



▲ Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
24	ST-3193	\$15.95	\$14.35	\$12.75

12 White LED Roof Mount Interior Lamp

Simple to install and use LED roof lamp for your motorhome, truck, or boat.

- 12 high brightness cool white LEDs and a on/off switch

SPECIFICATIONS	SL-3452
Power	12V
Colour	Cool White
LED	12 x LED
Light Output	140 Lumens
Dimensions	185(L) x 126(W) x 25(H)mm



▲ Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
140	Cool White	SL-3452	\$29.95	\$26.95	\$23.95

Circular 36 LED - 190 Lumen Cabinet Light - Touch Switch

A stylish and compact LED Cabinet Light suitable for caravan, marine, 4WD, auto and domestic applications. Touch the aluminium casing to turn the light on and off. Screw mounting holes in base hidden behind removable aluminium trim for neat and easy installation.

SPECIFICATIONS	ST-3915
Input voltage	9 - 30VDC (works on 12V and 24V systems)
Uses	36pcs of 3528 SMD LEDs
Lumens	190
Light Output	90°
Power Consumption	3W
Colour Temperature	Cool white 5500K
Dimensions	70(Dia.) x 9(H)mm

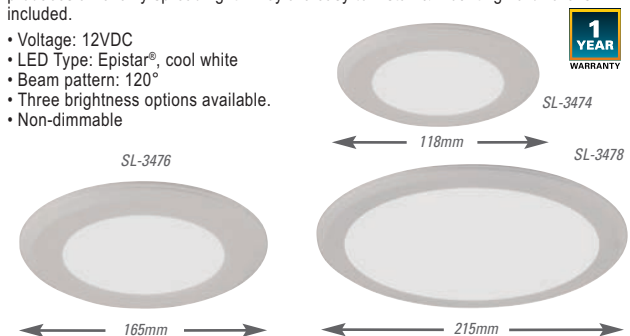


▲ Lumens	Colour	Cat.	Qty 1+	Qty 3+	Qty 6+
190	Cool White	ST-3915	\$34.95	\$31.45	\$27.90

Ultra-Slim LED Panel Cabin Roof Lights

These stylish lights are just 7mm thick. Mount them to the roof of your caravan, RV or boat for a bright, cool white light around the cabin. The side-lit LED panel design produces an evenly spread light. They are easy to install & mounting hardware is included.

- Voltage: 12VDC
- LED Type: Epistar®, cool white
- Beam pattern: 120°
- Three brightness options available.
- Non-dimmable



SPECIFICATIONS	SL-3474	SL-3476	SL-3478
Lumens	350	590	680
Power consumption	6W(500mA)	8W(660mA)	10W(830mA)
Dimensions	118(Dia.) x 7(D)mm	165(Dia.) x 7(D)mm	215(Dia.) x 7(D)mm

▲ Lumens	Dia.	Cat.	Qty 1+	Qty 5+	Qty 10+
350	120mm	SL-3474	\$34.95	\$31.45	\$27.90
590	165mm	SL-3476	\$44.95	\$40.45	\$35.90
680	215mm	SL-3478	\$59.95	\$53.95	\$47.95

An interesting development has been the 'NOOK' lights on page 490. All units can be wired by DIY handy people. They are 12V safe or battery. They are idea for caravans, sheds, boats – even cubby houses. With these products you never need to be scared of the dark again!

6 x White LED Awning Light

A simple to install light to provide illumination under a caravan or boat awning.

- Features two mounting holes on either edge and should be wired up to an on/off switch



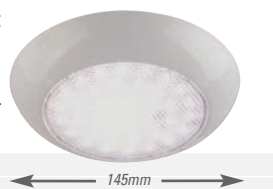
SPECIFICATIONS	SL-3459
Input voltage	12 - 24VDC
LED	6 x Cool white LED
Light output	140 Lumens
Dimensions	250(L) x 85(W) x 35(H)mm

▲ Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
140	Cool White	SL-3459	\$29.95	\$26.95	\$23.95

Waterproof Ceiling Mount LED Light

Improve the illumination in your caravan, car, truck or boat with this ceiling mount LED light. Waterproof and easy to install, the 42 high brightness LED's add more than enough light for your interior.

SPECIFICATIONS	SL-3448
LED	42
Output	4.2W
IP rating	IP66
Power	12-24VDC
Dimensions	145(Dia.) x 28(H)mm



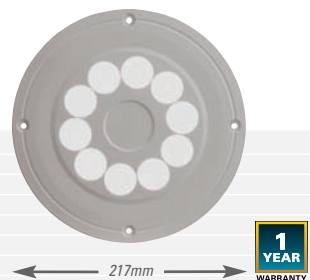
▲ Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
200	Cool White	SL-3448	\$39.95	\$35.90	\$31.90

Solid High Power IP67 LED Ceiling/Deck Light

This LED light is probably the toughest and brightest we've discovered in our search for the best in LED lighting. Made with powder coated die cast aluminium alloy, fitted with ten 3W Epistar LEDs sealed in resin, and using high quality American brand driver circuitry with pulse width modulation, this light is perfectly suited to marine environments or any other outdoor location totally exposed to the elements.

- Install can be either as a surface mount using the supplied mounting ring and gasket, or flush mount requiring just 10mm of mounting depth

SPECIFICATIONS	SL-3480
Input voltage	9-36VDC
Power	30W
Lumens	1600 lumen
Beam type	flood (120° angle)
LED type	10x Epistar 3W
Operating temp	-30°C to 50°C
Dimensions	217(Dia.) x 16(H)mm



▲ Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
1600	Cool White	SL-3480	\$129.00	\$115.95	\$102.95

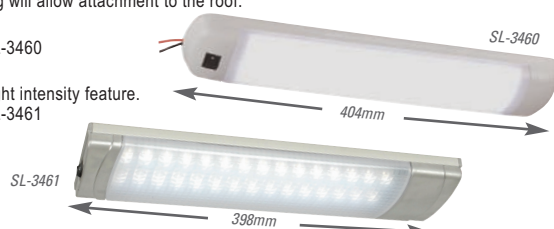
Ceiling Lamps with Switch

A fixed installation ceiling lamp suitable for a caravan, boat, truck, or even a car. The LEDs sit behind a diffuser to help spread the light evenly. Mounting holes on the backing will allow attachment to the roof.

12 LED
Cat. SL-3460

30 LED

Dual light intensity feature.
Cat. SL-3461



SPECIFICATIONS	SL-3460	SL-3461
Power	12/24VDC	12/24VDC
Colour	Cool white	Cool white
LED	12 x LEDs	30 x LEDs
Light output	280 Lumens	320 Lumens
Dimensions	404(L) x 88(W) x 28(H)mm	398(L) x 108(W) x 31(H)mm

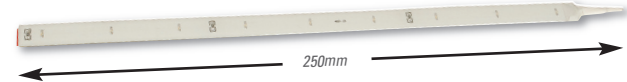
▲ Lumens	Colour	Cat.	Qty 1+	Qty 5+	Qty 10+
280	Cool White	SL-3460	\$59.95	\$53.95	\$47.95
320	Cool White	SL-3461	\$99.95	\$89.95	\$79.95

CAR LIGHTING - INTERIOR & EXTERIOR

12VDC 9 x LED Flexible Strip Light Kit - Blue

Give your car the visual edge it deserves with this easy to install LED light strip. It's a flexible 250mm long strip with 9 x bright LEDs. Adhesive backing makes installation easy. Ideal for lighting under your car, in your engine bay, just above your accelerator pedal, and in corners/dark areas of your interior. A mountable on/off switch terminal is included for easier control.

- Strip Length: 250mm
- 12VDC
- 20,000 hour burn time
- Waterproof
- Features on/off switch

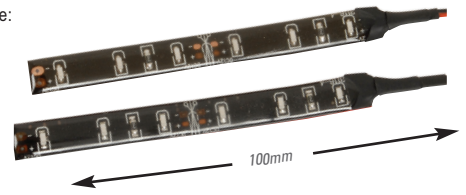


▲ Colour	Cat.	Qty 1+	Qty 2+	Qty 4+
Blue	SL-3957	\$9.95	\$8.95	\$7.95

2 x 6 LED Light 12VDC Strip Kits

Pack of 2 x 6 bright LED flexible strip lights for adding extra illumination to your vehicle interior. Choose from a sharp blue colour or white. Just peel off the protective 3M® cover and attach to a clean dry surface. Can be mounted virtually anywhere.

- Two colours available:
- 100(L) x 11(H)mm



▲ Colour	Cat.	Qty 1+	Qty 2+	Qty 4+
White	SL-3951	\$9.95	\$8.95	\$7.95
Blue	SL-3953	\$9.95	\$8.95	\$7.95

12" Flexible 21 LED Light Tube

Many of you have probably seen LED lights styled similar to neons available from a few places, but not like this! Typically they are a line of LEDs mounted to a PCB at about 25mm intervals, mounted inside a clear acrylic tube. Our models have a major advantage over those units. Ours are FLEXIBLE! They can mount straight, but will easily bend end-to-end, giving you a myriad of mounting options. You can't kink it like you would say, a garden hose, as the PCB inside will break if you push it too far, but they still provide excellent versatility. They are a great low current light source, drawing around 200mA.

- The tube is 24" (610mm) long, and houses 21 super bright LEDs.
- The white unit is great for general low-current lighting in a caravan, 4WD etc.



▲	Cat.	Qty 1+	Qty 2+	Qty 4+
White	SL-3950	\$24.95	\$22.35	\$19.70

2,000 Lumen 4 Bar LED Camping Kit

This is a fast and effective way to provide light for a campsite, worksite, or anywhere you like. It's built from four individual aluminium LED light strips, each one featuring 30 LEDs for 500 Lumens of light. That's 2,000 Lumens for the whole kit, which is a lot of light! Everything is plug and play, with two 5m cables, two 2.5m cables, two 1m cables, four 0.5m cables, and a 3 to 1 joiner, you can connect them however you like to suit your particular use. A remote control for brightness and on/off is included, as well as three on/off dimmer switches, all contained in a convenient nylon carry case. They're powered by 12VDC, with battery clips and a cigarette lighter socket provided. You can easily run from mains power using a 12V adaptor too.

- IP68 rated LED light bars
- Extremely high 2,000 lumen output
- Includes nylon carry case

SPECIFICATIONS	SL-3969
Working Voltage	12VDC
Rated Power	4 x 7W
Colour Temperature	6000K
IP Rating	IP67 (LED Strips)
Working Current	2.33A
Light Bar Dimensions	520(H) x 13(W) x 7(D)mm



▲ Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
4 x 500	SL-3969	\$189.00	\$169.00	\$150.00

12VDC Touch Switch Controller With 3 x Touch Switches

Add three sleek and unobtrusive touch switches to control 12VDC LED lighting in your caravan, car, or boat. Just connect a 12VDC power supply or wire in power yourself. Each switch will control the same device so you can install the switches in convenient locations.

Limited Stock

SPECIFICATIONS	ST-3942
Rated Current	3A
Standby Power	6W
Rated Power	550W
Dimensions	59(L) x 39(W) x 13(H)mm
Switch wire length	150(L)mm



▲	Cat.	Qty 1+
	ST-3942	\$24.95

Flexible LED Strip Light with Hook & Loop Backing



A simple solution for campsite lighting. Just plug it into a 12V cigarette lighter socket, flick the switch and you have over 1,000 lumens of brilliant white light to light up under your awning, inside a tent, or anywhere else around the campsite. The 1.2m long LED strip is fitted inside a fabric strip with hook and loop backing allowing you to easily attach it to tent poles or awning frames. Metal hooks are also fitted for alternative mounting options.

- The supply cord is 5m long with a waterproof in-line switch
- LED strip is IP67 waterproof
- Includes carry bag

Supplied with carry bag

SPECIFICATIONS	ST-3950
Rating	IP67 Waterproof
Input	12VDC
Input current	1.0A
Colour	Cool white, 5500K
Lumens	1200
LEDs	72 x 5050SMD
Switch	Waterproof in-line switch
Cord length	5m
Dimensions	1350(L) x 50(W) x 7(H)mm

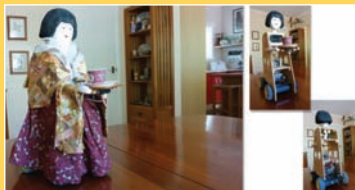


▲	Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
Cool White	1200	ST-3950	\$99.95	\$89.95	\$79.95

1 YEAR WARRANTY

SHOW US YOUR BUILD COMPETITION

Mike, who shops at our Jaycar Kingston store built:



Suki is a copy of a traditional Japanese tea-serving doll, controlled by an Arduino. To serve tea to your guest, you put the tea cup on her tray. She trundles off to the guest, bows and asks if the guest would like a cup of tea. The guest drinks the tea, replaces the cup and Suki returns back.

METAL DETECTORS

Beginner Metal Detector with Auto Tune

A great beginner's metal detector! It is very simple and easy to use - it has an auto tune feature with a meter indication to show metal types detected. It is very reliable with its microprocessor control and digital signal processing. The detector has an adjustable length boom and a waterproof search coil making it suitable for use in a variety of landscapes. It is capable of detecting a coin at 100mm deep and responding to all types of metals. It features volume and sensitivity adjustment knobs, audible alert speaker and headphone socket.

- Requires 6 x AA batteries
- Overall length: 780mm
- Search Coil Dimensions: 165(Dia.) x 17(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2302	\$89.95	\$80.95	\$71.95

4 in 1 Metal Detector Explorers Kit

A metal detector only does half the job, once the needle starts to flick and the alarm starts to beep, you know you are in for some serious digging. This handy digging set is very light to be carried around and also very tough and durable.

- Includes headphones to connect to your metal detector, a 2-in-1 handheld shovel/rake, a sieve and a carry bag.



Note: Metal detector not included

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2304	\$49.95	\$44.90	\$39.90

SCOPES

50x Spotting Scope with Smartphone Viewing Attachment

A fantastic addition to the age old invention that is a telescope. Observe the cosmos, wildlife at game parks, or aircraft landing and capture it all on your iPhone® by attaching it to the tele-lens. This kit comes with a traditional telescope, a K25mm eyepiece for viewing the skies above, as well as a 50x tele-lens for attaching to an iPhone 4s/5s® or Samsung Galaxy® S3/S4. Capturing close-up footage of distant objects is now incredibly easy. In a few seconds it could all be uploaded to Facebook, Instagram or your blog. Comes with handy carrying pouch for transporting to your spotting location.

- Supplied with brackets for iPhone® 4s, iPhone® 5, Samsung Galaxy® S3/S4/
- F40070 telescope
- Magnification: 12x, 16x, 50x
- K25mm eyepiece / 50x tele-lens kit
- Light weight tripod
- Carrying pouch included
- Dimensions: 480(L) x 90(Dia)mm



▲	Cat.	Qty 1+
	GG-2134	\$99.95

Waterproof Metal Detector with Large LCD

Ideal for beachcombing and prospecting as well as finding objects in obscured locations such as long grass, this high grade portable metal detector is suitable for many applications. Capable of detecting a coin at up to 180mm depth it will detect a variety of metals, with three different tones to distinguish dissimilar metals. Operating at a low frequency of 6.6kHz, the detector will only respond to metal objects and ignores the effects of iron ground mineralization, making it more accurate for locating at large depths. Alternatively, the all-metal mode can be switched on to enable any underground metal traces detected and is signalled both optically and acoustically. An extra large waterproof pick-up coil with its intricate two-dimensional helical winding technology enables very fine and precise measurements to be carried out while carrying it comfortably with the arm support.

- Adjustable sensitivity
- Deep target searching
- 3 Operation modes: All metal, Disc, Notch
- Ferrous/Non-ferrous indicators
- Waterproof search coil
- 3 Tones for different metal indication
- One touch auto ground balance
- Headphone jack & 2" speaker
- DSC and GND adjustment

SPECIFICATIONS QP-2307

Power	Requires 2 x 9V batteries
Overall Length	1250mm
Search Coil Dimensions	205(Dia.)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2307	\$169.00	\$151.95	\$134.95

Waterproof Metal Detection Pin-pointer with Vibrating Alert

Don't waste time ploughing around a large area to find the target object, pin-point exactly where your desired metal is before digging. Highly accurate and capable of detecting a coin at up to 30mm depth, it will alert you when you've found your treasure with LED indication and vibration. Easy to carry and waterproof, it is ideal for use in many environments.

- Completely Waterproof
- LED Indicator and Vibrating Alert
- Low Battery Indication
- Power: Requires 1 x 9V Alkaline battery



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2305	\$59.95	\$53.95	\$47.95

Night Vision Monocular with 3x Magnification & IR Illumination

Price Breakthrough! Up until now we have avoided selling night-vision products because we felt that not only were they expensive but they didn't perform all that well. This unit, however, changes that. Not only is this product relatively low cost, it has 3 x magnification and an infrared illuminator when light levels are extremely low.

- The unit has a focusing ring and attachments for a tripod mount

SPECIFICATIONS GG-2129

Type	3 x 42 image intensifier tube
Max range	150-200m (2-10 Lux)
Field view	13°
Eye piece	-4 to +4 diopter
Battery	CR123A required
Battery life	approx 30 hours
Weight	300gms
Accessory	Carry bag
Lens Dia.	42mm
Dimensions	170(L) x 75(H) x 50(Dia.)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GG-2129	\$349.00	\$309.00	\$279.00

THERMOELECTRIC COOLER & WARMER

4L 12VDC Thermoelectric Portable Cooler & Warmer

With no compressor or refrigerant to worry about, this solid-state cooler / warmer is convenient and trouble-free. Using a peltier device it can warm or cool with the flick of a switch. Keep your drinks cold at 12-15°C below ambient temperature, or keep a hot lunch warm at 60-63°C above ambient. It is powered via cigarette lighter lead in the car, and is a perfect companion to a campsite, worksite, a road-trip, or anywhere you want hot or cold food and drinks!

SPECIFICATIONS	GH-1384
Power	12VDC
Cooling Capacity	12 - 15°C Below Ambient
Heating Capacity	60 - 63°C Above Ambient
Power Usage	45 - 50W
Capacity	4L
Weight	2.1kg
Dimensions	190(W) x 270(H) x 250(D)mm (External), 142(W) x 210(H) x 140(D)mm (Internal)



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
4L	GH-1384	\$64.95	\$57.95	\$51.95

14L 12VDC Thermoelectric Portable Cooler & Warmer

Here's a great way to keep your food and drink cool or warm in the car. It is extremely low noise and uses full foam insulation to keep it lightweight and portable. 12VDC powered, so it's simply a matter of connecting to your cars cigarette lighter socket and switch on either cooling or warming mode. Will fit a bottle of white wine or 2L bottle of milk lying down.

• CFC free

SPECIFICATIONS	GH-1373
Voltage	12VDC
Minimum temperature	18°C-20°C below ambient temp
Max Temperature	65°C
Capacity	14 litres
Power usage warming	38W
Power usage cooling	46W
Dimensions	490(L) x 305(W) x 270(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
14L	GH-1373	\$119.00	\$106.95	\$94.95
Replacement Lead	PP-1986	\$17.95	\$16.10	\$14.35

THERMOELECTRIC HEATING/COOLING

This technology uses the "Peltier Effect" to increase or decrease temperature. It is fully solid state and is very reliable. It is quite inexpensive as it does not use gas compressor technology. The amount of temperature differential from ambient, is

however, fairly modest. If you really want massive chilling or freezing capacity, you are better of saving your pennies and buying a POWERTECH compressor-type unit.

REPLACEMENT FRIDGE LEADS

Replacement Lead for Portable Fridges

• Suits cigarette and merit sockets

SUITS WAECO FRIDGES

Cat. PP-1982

SUITS ENGEL FRIDGES

Cat. PP-1984



▲	Suits	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
	Waeco	1.8m	PP-1982	\$19.95	\$17.70	\$15.70
	Engel	1.8m	PP-1984	\$19.95	\$17.70	\$15.70

Replacement Power Lead for Thermoelectric Cooler/Warmer

A replacement DC power lead to suit most common thermoelectric cooler/warmers which have the notched rectangular shape DC power input. Can fit into cigarette or merit sockets.



▲	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
	1.8m	PP-1986	\$17.95	\$16.10	\$14.35

CARAVAN ACCESSORIES

RCD with 15A to 10A Mains Plug Conversion

Convert your 15A power lead to fit a 10A power outlet whilst adding the additional safety of RCD earth leakage protection. Features a 10A circuit breaker/RCD in case you accidentally overload the device. Not suitable for outdoor use, unless combined with our HB-6178 weatherproof case.

SPECIFICATIONS	MS-4044
Voltage	240VAC, 50Hz
Max load	2400W 10A
Rated residual current	30mA
RCD type	AC & DC pulse sensitivity
Dimensions	180(H) x 135(D) x 124(W)mm
Electrical Safety Approval Certificate No.	SAA122512EA



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
15A to 10A Mains Adaptor	MS-4044	\$89.95	\$80.95	\$71.95

Caravan/RV (General Purpose) Mast

This unit in natural finish anodised aluminium is a telescopic mast suitable for TV and other antennas. It will extend to 1.5 metres in 3 sections. The top section is 27mm dia. which is compatible with almost all TV antenna mounting hardware. The bottom section is 35mm dia. which would easily be accommodated by U-bolt or other clamping hardware (not supplied). The top section has a sturdy cap & features a slot to neatly thread the coax lead down through the mast.

• Length extended: 1.5m



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Up to 1.5m	LT-3204	\$29.95	\$26.95	\$23.95

SWITCHMODE POWER SUPPLIES

Switchmode - Mains to Cigarette Lighter Socket 12V

For powering 12V equipment such as car coolers and camping fridges from a mains AC power source. Supplied with a 1.5m output lead with cigarette socket output, making connection simple and easy. Input voltage: 240VAC.



12VDC 7.5A Cat. MP-3575
Dimensions: 157(L) x 90(W) x 57(H)mm

12VDC 12.5A Cat. MP-3573
Dimensions: 200(L) x 100(W) x 65(H)mm

▲	Current	Cat.	Qty 1+	Qty 5+	Qty 10+
	7.5A	MP-3575	\$44.95	\$40.45	\$35.95
	12.5A	MP-3573	\$119.00	\$106.95	\$94.95

Outdoor UHF/VHF/Marine TV Antenna

Digital ready. This unit is ideal for the traveller. This antenna works on all frequencies ideal for any part of Aust/NZ. (Some better than others, we admit). It covers VHF low, down to 45MHz (channel 2) to 860MHz (channel 69). Includes a signal amp, a rotator motor, a remote control and also with approx. 8m of TV lead with a weatherproof plug on one end.

- 12VDC adaptor supplied
- Booster amp drive 2 x TV's
- Compatible with LT-3204 telescopic mast.
- Output 80 dBuV.
- Remote includes: 1 x 12V battery
- Antenna measures: 750(W) (deployed) x 300(L) x 100(D) (mm) (Folds down for storage)



Note: Mast not included - use LT-3143

▲	Cat.	Qty 1+	Qty 2+	Qty 5+
	LT-3143	\$64.95	\$58.45	\$51.95

Caravan/RV Antenna Mast Clamp Set

Position the antenna brackets on the side of your caravan, motorhome or boat, then use the self-adhesive pads to quickly and easily secure them in place. The brackets also include holes for screw mounting if you would prefer a more secure option! Suitable for 25-30mm dia antenna masts.

- Two mounting brackets
- Suits 25-30mm diameter masts
- Dimensions: 108(L) x 47(W) x 68(H)mm



▲	Cat.	Qty 1+	Qty 2+	Qty 5+
Pair	LT-3208	\$24.95	\$22.45	\$19.95

FOOD & BEVERAGE ACCESSORIES

12V Car Kettle

Now you can stop, revive, survive anywhere. An ideal travelling companion for those who spend a lot of their time on the road. Simply plug into your car's cigarette lighter socket, mount to your car's interior and boil away. Holds up to 550ml and makes up to 4 cups of tea, coffee, soup or any other hot beverage. Note that this device is not the same as your domestic kettle which consumes much more power so boiling times will be longer.

- 2 cups, strainer & mounting bracket included
- Approx boiling times
300ml - 15min
500ml - 28min
- Dimensions: 235(H) x 95(D)mm

Be prepared for a wait for your cuppa! It takes a LONG TIME for 12 Volts to boil water but it does eventually!



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	GH-1380	\$17.95	\$15.95	\$14.35

12V KETTLES, HOW LONG IS TOO LONG?

TECH TALK

A lot of people bring these back as they are dismayed at the amount of time it takes to boil water. They often take over 20 minutes to boil 1/2 a litre of water. You need to look at the physics of this. A 12V Kettle will often draw 20 amps at 12V. This equates to 240 watts of power. Whilst this may seem a lot, it is generally only a fraction of a domestic 240V Kettle. They routinely draw between 1800-2200 watts of power. No wonder they are quick!

12V Kettles work, but the laws of physics are against them. You may be able to live with them once you are aware of the above.

12V Heated Travel Mug - 450mL

Plugs into the cigarette lighter socket in the vehicle to keep your coffee, tea or soup hot as you travel. The double wall design is stainless steel so it won't rust, and the spill proof lid will help avoid any spills if you're travelling on a rough road.

- Supplied with a detachable 12V power lead to cigarette lighter plug.
- 450ml



NEW 2017

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	GH-1303	\$19.95	\$17.95	\$15.95

GAS MONITORING

Electronic LPG Gas Level Monitor

The clever unit attaches to your steel LPG bottle. It detects the gas in your bottle, (typically 9kg) and gives a musical alarm when the gas in your bottle is low. Don't run out of gas halfway thru a barbie ever again!

- Works on any steel LPG cylinder
- Uses 2 x AA batteries (supplied)
- Virtually no installation
- Magnetically attaches to cylinder



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-1662	\$13.95	\$12.55	\$11.15

PORTABLE SHOWER

12V Camping Shower

All you need is a bucket of warm water and your vehicle's 12V battery and you can wash away the cares of the day. The 4.8 metre power cable plugs into your vehicle's cigarette lighter socket and a waterproof switch controls power to the pump. The shower comes with 2.1 metres of plastic tubing, pump, showerhead, hanging hook and a nifty carry bag to store it in. This self-contained little beauty even has a water flow control valve built into the showerhead and will become an indispensable part of your travelling kit.



1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	YS-2800	\$34.95	\$30.95	\$27.95

12V 35W Heated Lunchbox With Cutlery

Now you don't even have to find a microwave to keep your lunch hot. The 1.5L capacity provides space for a hearty lunch with a heated stainless steel inner, while the insulated outer casing keeps it cooler to the touch. Ideal for day-trips, road-trips, or even to help a tradie avoid the servo for lunch. It even includes cutlery, so you're ready for a hot lunch, wherever you're headed. Simply powered from the cigarette lighter.

- Food Capacity: 1.5L
- Power: 12V 35W
- Dimensions: 235(W) x 108(H) x 170(D)mm



NEW 2017

1 YEAR WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	YS-2840	\$34.95	\$30.95	\$27.95

Large Portable Stove - 12V

Perfect for cooking and/or storing food hot on those long trips. It gets up to 149°C and its insulated design keeps food hot, while the outside stays cool. It plugs into a 12V cigarette lighter socket in the car.

- Heats food in just 3 minutes
- Holds up to 3 litres
- Internal temperature up to 300°F/149°C
- Easy to setup and use
- Cable length: 1.9m

Dimensions:
• External: 270(L) x 200(H) x 170(W)mm
• Internal: 230(L) x 130(W) x 80(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
12VDC	YS-2811	\$49.95	\$44.90	\$39.90

Collapsible Bucket & Wash Mitt Kit

A handy collapsible bucket with a wash mitt for keeping your car clean at home or on the road. The mitt is like wearing a mop on your hand, it is extremely effective at clearing away dirt and grime from your car, truck, 4WD or motorbike. When the washing is finished just fold it all away and store in the supplied pouch. Keep one in the boot!

- Thumbless wash mitt for either hand
- Bucket capacity: 10.5L
- Dimensions: 245(Dia.) x 38 - 265mm high



NEW LOW PRICE

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
10.5L	GH-1266	\$9.95	\$8.95	\$7.95

Gas Leakage Detector

Gas leaks can be incredibly dangerous, even small ones. Run a quick check over your house or gas powered devices to make sure all outlets are safely sealed. Hold the power button for a few seconds and then place the detector near the suspected leak and visual/audible warnings will sound if the leak is bad, moderate or safe. Red (Hi), orange (Lo), and green (safe) LEDs denote the severity of the leak.

SPECIFICATIONS	QP-2299
Requires	2 x AAA batteries (not included)
Sensor detects	butane, propane, acetylene, and methane (natural gas)
Dimensions	165(L) x 27(W) x 21(D)mm

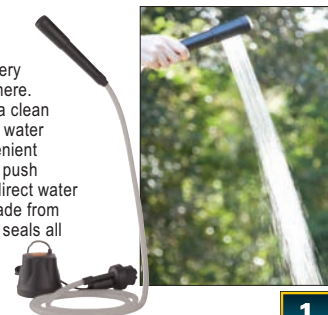


▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QP-2299	\$44.95	\$40.45	\$35.95

Portable Camping Shower - Battery Operated

This high quality portable shower is battery powered so you can use it almost anywhere. Simply drop the submersible pump into a clean water supply or attach it to a compatible water barrel, hang the shower head in a convenient location, and activate the pump with the push button switch. It can also be used as a direct water pump by detaching the shower head. Made from impact resistant ABS plastic with rubber seals all components are weather resistant.

- Hose Length: 2.5m
- Power Cable Length: 1.8m
- Requires 4 x D batteries (not included)
- Battery Pack: 100(Dia) x 95(H)mm



1 YEAR WARRANTY

▲	Cat.	Qty 1+
Battery Operated	YS-2802	\$24.95

PEST CONTROL

The Amazing Flygun

The Amazing Flygun is a spring powered gun that kills flies, mosquitos and cockroaches! It is fun, safe and easy to use. The swatter is simply pushed onto the gun and it is ready to use. A long string is also attached so the swatter won't get lost. It is then ready to be reloaded and fired again. It is fun, effective and really does work! It has proven extremely popular, with thousands being sold every month!

Safe for Kids
8 years +



TRUST US! THIS THING REALLY WORKS!

▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	Flygun	YS-5545	\$7.95	\$6.95	\$6.25

Personal Sonic Insect Repeller

Keep the mozzies away! With a range of 6 metres, it's perfect for camping, picnics fishing etc. It also has a pocket or belt clip to keep it handy.

- Requires AA battery: SB-2424.
- Dimensions: 95(L) x 20(D)mm



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	Insect Repeller	YS-5534	\$9.95	\$8.75	\$7.75

High Power 'Frequency Shifting' Ultrasonic Pest Repeller - 140dB

This pest repeller uses frequency shifting techniques which may prevent pests from developing an immunity. The device has an output of 140dB that can protect up to 280 square metres. The repeller may be effective against mice, rats, roaches, fleas, flies, crickets, silverfish, waterbugs, moths, ants, spiders & most other common pests. The ultrasonic frequencies used are out of the hearing range of humans & most household pets such as cats, dogs, fish & birds etc. We make no guarantees that this will solve your particular problem, but there are thousands of people who swear by them.

- Supplied with mains plugpack and installation guide.
- Dimensions: 120(Dia.) x 75(H)mm



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	140dB	YS-5520	\$39.95	\$35.95	\$31.95

EMERGENCY & FIRST AID

Survival Knife with LED Torch/Fire Starter/Belt Cutter/Window Breaker

Built for extreme adventures, the knife is crafted using Grade 420 stainless steel for maximum durability. A liner lock system allows you to effortlessly extract the blade with one hand, leaving the other one free. Use the serrated edge to cut with speed or the straight edge to cut with precision. The built-in LED light lets you see in the dark while the magnesium alloy fire starter lets you start your own campfire. If you find yourself trapped inside your own vehicle, use the belt cutter & window breaker for an escape.

- Grade 420 stainless steel construction with anodised aluminium handles
- Liner lock system
- Blade features straight and serrated edges
- Built-in LED light
- Magnesium alloy fire starter
- Belt cutter
- Window breaker
- Dimensions:
 - Open: 208(L)mm
 - Closed: 126(L)mm



Some age restrictions apply in some states for knife sales

▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	Survival Knife	TH-1925	\$18.95	\$16.95	\$14.95

Roadside Auto Emergency Kit

A must have for every car, caravan, or boat for that extra travel security if you break-down or become stranded. The 10-piece kit includes some first aid items to patch up a bleeding hand, leads to jump start a car with a flat battery, LED head torch to help see around an engine bay at night, and rubber grip gloves to grab items without slipping.

- Custom storage case contents:
 - 4 LED Head Torch
 - Light Duty Jumper Cable Set
 - Rubber Grip Gloves
 - Tyre Pressure Gauge
 - First Aid bandages and disinfectant pads
 - Multipurpose tweezers
 - Emergency rain poncho
 - Requires 3 x AAA batteries for the head torch
 - Case dimensions: 265(L) x 157(W) x 75(H)mm



▲		Cat.	Qty 1+	Qty 5+	Qty 10+
	Emergency Kit	ST-3267	\$24.95	\$22.35	\$19.70

Dual Speaker Pest Repeller

Emits ultrasonic sound waves which are extremely unpleasant for cock-roaches, flies, crickets, silverfish, mice & other nasty critters. Laboratory research has shown ultrasonic sound waves attack the auditory and nervous systems of most common pests causing them pain and discomfort. The high intensity sound waves will end up driving away these pests. The frequency can be adjusted from 22kHz up to 49kHz, for driving away certain pests. A clean alternative to poison or dangerous traps. Includes mains power supply.

SPECIFICATIONS	YS-5528
Frequency range	22kHz-49kHz (manual control)
Power consumption	2W
Output sound pressure	115dB x 2
Dimensions	155(L) x 90(W) x 85(D)mm



1
YEAR
WARRANTY

▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	2 x 115dB	YS-5528	\$59.95	\$53.95	\$47.95

Electric Fence Energiser - 10km

Capable of electrifying up to 10km of fencing for enclosing livestock such as horses, chickens, cattle, sheep, etc. Installation is simple, connect up to a 12VDC lead acid battery via the alligator clips, and then using the binding posts, wire up to a suitably fitted electric fence wire and ground stake. You will need to ensure that you have the correct electric fence isolators, joiners wire and tape fitted to your fence to ensure it works properly - full instructions are included with the unit and available on our website. The required fencing components are available from most agricultural supply stores.

- 10km range
- 0.6 Joules
- Average power consumption: 10mA
- Max power: 12VDC 85mA
- 12VDC battery operated (recommended 4Ah or larger SLA)
- Minimum 3W solar panel recommended
- Dimensions: 171(H) x 95(W) x 45(D)mm



1
YEAR
WARRANTY

Note: DO NOT CONNECT TO MAINS ELECTRICITY

▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	Fence Energiser	ME-6800	\$84.95	\$76.45	\$67.95

Fire Starter Rod Kit

A handy addition to the survival kit if you're going camping. Simply strike the flint rod and metal striker together to create a spark, even in wet or cold. Much easier than rubbing sticks together.

- Rod length: 60mm



Limited Stock

▲		Cat.	Qty 1+	Qty 3+	Qty 6+
		TH-1933	\$9.95	\$8.95	\$7.95

Fire Blanket

Designed for extinguishing small fires. The fire retardant fibreglass fabric will suffocate the flame quickly allowing you to restore safety. Keep one in your kitchen, workshop, boat, caravan, 4WD or at the campsite.

- Supplied in Soft Pouch



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	1m x 1m	GG-2340	\$14.95	\$13.45	\$11.95
	1.2m x 1.8m	GG-2342	\$24.95	\$22.35	\$19.70

47 Piece First Aid Kit

Ideal for the home, office, car or boat. This kit contains sticky plasters, bandages, safety pins, anti-bacterial solution, scissors and much more. All packed in a super durable, red high visibility nylon storage case.



▲		Cat.	Qty 1+	Qty 3+	Qty 6+
	First Aid Kit	ST-3968	\$16.95	\$15.25	\$13.55

FANS

12VDC Oscillating Fans

Keep cool in the stifling heat. If you need some extra air circulation in your car or truck grab one of these fans, mount it, and away you go. The models just connect to your cigarette lighter socket for power. The on/off switchbox includes screw mounting holes to give your installation a more permanent look. Clamp & suction mount bracket versions available.

SPECIFICATIONS	BOTH
Power	12VDC
Dimensions	180(Dia.) x 145(D)mm
Switch	On/off oscillating switch
Cable length	2m



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Fan with Clamp	GH-1398	\$24.95	\$22.45	\$19.95
Fan with Suction Mount Bracket	GH-1399	\$24.95	\$22.45	\$19.95

14" AC/DC Rechargeable Oscillating Fan

This fan is the ideal size for a medium/large caravan, motor home or cabin cruiser. They provide a low noise, source of breeze in a confined space. The fact that you don't have to plug them in makes them extremely versatile. For example, you can put one inside a tent on a hot night. It is amazing how just a whiff of cooling air helps you sleep. Has a small flashlight/torch built-in which could be handy to illuminate an object in an otherwise dark tent. It has an energy save feature, and there is a facility to swap over the rechargeable battery with a charged one should you need to keep the fan going for a long time. The spare battery is a very popular option. Of course, if you have a source of main power, you can run it indefinitely.

- AM/FM radio
- 400m3/hr air flow on high
- Run up to 2.5 hours at high speed or 5 hours at low speed
- Supplied with mains charger
- Dimensions: 410(H) x 385(W) x 160(D)mm



NEW LOW PRICE

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
14"	GH-1284	\$99.95		
Spare battery to suit	GH-1281	\$14.95	\$13.45	\$11.95

Evaporative-Type Cooler Fan

If the local humidity is below 100%, i.e. most of the time, an evaporative-type fan can be very effective. By blowing air over water, the evaporative process pulls heat out of the air. The result is a flow of air much colder than the ambient air. This unit has a very efficient, brushless DC drive motor for the fan and runs for a very long time on the rechargeable battery.

- AC/DC operation
- 20m3/hr air volume
- 500ml water tank
- Includes charger and sealed battery
- 2 speed fan - Runs 2.5hr on high, 5 hours on low
- USB port to charge your phone
- Dimensions: 125(W) x 250(H) x 130(D)mm

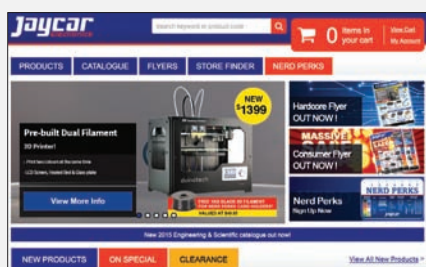


1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Fan	GH-1285	\$109.00	\$97.95	\$86.95
Spare battery to suit	GH-1281	\$14.95	\$13.45	\$11.95

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White Rechargeable Misting Fan

Ultra compact and light weight, with a misting function for highly efficient cooling. Misting fans leverage the benefits of increased air flow, as well as evaporative cooling. Easily refillable water reservoir and adjustable stand for perfect positioning.

- Rechargeable Li-ion battery via USB Cable
- Easy to Fill Water Reservoir
- Adjustable Stand
- Micro USB

SPECIFICATIONS	GH-1293
Input	DC 5V/1A
USB Output	DC 5V/1A
Battery Voltage	3.7V
Battery Model	Li-ion 18650



NEW 2017

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Misting Fan Rechargeable	GH-1293	\$29.95	\$26.95	\$23.95

Mini Rechargeable Fan with Clamp Mount

This fan is very similar to our GH-1286 but is portable. It has no cords as it runs on a Li-ion 18650 battery, like the 'Katabat' super compact fan. You charge it via USB with the lead supplied, (but no actual charger.) This model features a wonderful gymbal mount so that you can point the fan in any direction.

- Available in blue/white only
- Clamp will open to 30mm
- Fan housing 130mm, overall 220mm



NEW 2017

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Rechargeable	GH-1291	\$24.95	\$22.45	\$19.95

Camping Lantern with Fan

Keep cool for summer and bright at night. Ideal for camping, travel, or even the office! This totally portable unit incorporates a high-speed personal fan, along with 12 high power LEDs. You can select from three modes; fan, lights, or fan with lights. Simply it features the versatility of desk-mounting or a hanging hook - so you can place it wherever is most convenient. Simply powered by 3 x AA batteries, it'll go wherever you do.

SPECIFICATIONS	GH-1290
Power	3 x AA batteries (not included)
Fan Speed	6,500RPM
Lighting	12 x High Power LEDs
Material	ABS Plastic
Dimensions	175(Dia.) x 65(D)mm (excluding bracket), 350g



NEW 2017

1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1290	\$19.95	\$17.95	\$15.95

4" Super-Compact Mini Fan "Katabat"

The 4" fan produces a surprising amount of cooling air but only has a table footprint of only 110 x 35mm. It is self-sustained using a rechargeable Li-ion 18650 3.7V battery. No cords needed, a USB recharger is included with the product. It comes with a hook to hang it up and even has an LED which can be used as a torch. More useful is the fact that small as it is, it has a 3-speed fan button! Unbelievable!

- Dimensions: 140(H) x 110(W) x 35(D)mm



1 YEAR WARRANTY

	Cat.	Qty 1+	Qty 3+	Qty 6+
Black	GH-1286	\$16.95	\$15.25	\$13.55
White	GH-1289	\$16.95	\$15.25	\$13.55

Deluxe Water Misting Fan

Be cool and comfortable while outdoors with this personal water mister and fan in one. It is handy and portable with a moulded hand grip and trigger pump for ease of use. Powerful enough to provide a significant amount of breeze but safe enough for the kids to use with soft blades. Great for use while camping, at the beach, or at sporting events etc.

- Use as a water misting fan, stand alone fan or stand alone mister
- Requires 2 x AA batteries
- Dimensions: 270(H) x 70(Dia.)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
Misting Fan	GH-1071	\$12.95	\$11.65	\$10.35

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

JUMP STARTERS

It was not until battery manufacturers came up with small (generally) lead-acid batteries with low internal impedance that enabled these products to emerge. With such battery technology, it was possible to make a portable power source in a reasonably lightweight package with enough grunt to be useful. Up until that point you had to borrow a full-size battery - or a nearby vehicle to jump-start a car or truck.

Even if that jump-start capability was the only feature, they'd be worth having. But, in addition they have other in-built features which include: small air compressors, AC/DC chargers, USB outlets, 240V inverters & jumper cables! No wonder these products are some of the fastest sellers in the Jaycar range. There is no reason why everyone who owns a car, 4WD, boat, caravan, truck etc. would not have one.

JUMP STARTERS				COMPARISON GUIDE				
	MB-3753	MB-3757	MB-3758	MB-3734	MB-3736	MB-3762	MB-3756	MB-3752
								
Voltage	12V	12V	12V	12V	12V	12V	12/24V	24V
Cranking Current	200A	300A	350A	300A	400A	450A	400A/300A	400A
Amp Hours	7.5Ah	11.1Ah	18Ah	12Ah	17Ah	4.5Ah	22.2Ah	3.3Ah
Battery Type	Li-Po	Li-Po	Li-Po	SLA	SLA	LifePo4	Li-ion	Li-Po
LED Light	•	•	•	•	•	•	•	•
USB Out	1 x 2.4A	1 x 1A, 1 x 2A	1 x 2.4A, Type-C x 3A	1 x 2.4A	1 x 0.5A, 1 x 2.1A	1 x 2.4A	1 x 2A	1 x 2.1A
Air Compressor					•			
19V Laptop Supply								•
Page	499	499	500	500	500	500	501	501

12V 400A Glovebox Jump Starter & Powerbank

Gone are the days of flooded engines and manual chokes to get your car started, but that pesky battery still has a habit of failing at the most inconvenient of times. This unit is amazing. Barely larger than a smartphone, and probably even lighter, but packs a huge power punch to get your car started. With a peak current available of 400 amps, it's powerful enough to get just about all but a tank running. Of course, sometimes emergency phone power is just as important as starting a car, so a 5V 2A USB port is provided to get you powered back up. It even includes a cigarette lighter socket charging adaptor, so it never has to leave your car (just remember to charge it when your battery is NOT flat!). In case it's dark, it also incorporates a clever high-power LED. It can provide torch light, flashing strobe, or flashing blue and red - all have their respective purposes. These devices are now so reliable that similar ones are used by roadside service operations instead of jumping from their own vehicle! If you have more than one vehicle in your family, one for each is a very sound idea.



NEW 2017

SPECIFICATIONS	MB-3753
Output 1	5V/2A
Output 2	12V @ 200A (400A peak) Jump Starting
Weight	271g
Dimensions	
Battery Pack	30(L) x 70(W) x 25(H)mm
USB to 30-pin/Micro USB/Lightning Cable	230mm
Cigarette Lighter Adaptor	60(H) x 25(Dia.)mm
Jump Starter Attachment Cable Length	350mm

1 YEAR WARRANTY

▲	Continuous	Peak	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	200A	400A	MB-3753	\$159.00	\$142.95	\$126.95

450A Li-Po Jump Starter & Powerbank

Powerful enough to start most vehicles, it'll crank an engine up to a 5L petrol, or 3L diesel. When not being used for jumpstarting it includes an LED torch, as well as a strobe/orange warning light. You can charge USB devices using one of the two USB ports, one rated at 1A, the other at 2A. Recharge time is less than 5hrs, recharged using the supplied mains adaptor. Never leave home without it!



NEW 2017

SPECIFICATIONS	MB-3757
Battery Capacity	11,100mAh = 41.07Wh
USB Output	5V @ 2A & 5V @ 1A
Jump Starter Output	12V @ 300A (450A peak)
Charge Time	Up to 4.5hrs
Operating Temperature	0°C - 60°C
Weight	420g
Dimensions	66(W) x 142(D) x 30(H)mm

1 YEAR WARRANTY

▲	Continuous	Peak	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	300A	450A	MB-3757	\$179.00	\$161.00	\$143.00

JUMP STARTERS (CONTINUED)

12V 700A Jump Starter & Powerbank with Laptop Power

Using a huge 18,000mAh Li-Po battery, rated at a massive 700A peak (350A continuous) jump starting current. It's an absolute beast, but still compact in size. Not only will it start your car, it provides 12/16/19V @ 3.5A to run a laptop. It also provides a 3.5A USB Type-C outlet, and a 2.4A USB outlet. That covers a large majority of portable devices, including the car! Will start big motors, up to 7L petrol and 4L diesel. Features an integrated torch and warning strobe, and is recharged using the supplied car or mains adaptor.

SPECIFICATIONS	MB-3758
Capacity	18,000mAh
USB Output	5V @ 2.4A (Type A), 5V @ 3.0A (Type-C)
Laptop Output	12 / 15 / 19V @ 3.5A
Jump Starter Output	12V @ 350A (700A peak)
Starting Current	350A
Peak Current	700A
Dimensions	85(W) x 216(D) x 36(H)mm, 640g



NEW
2017

1
YEAR
WARRANTY

▲	Continuous	Peak	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	350A	700A	MB-3758	\$279.00	\$249.00	\$219.00

12V 12Ah Jump Starter with 2.4A USB & LED Light

Extremely portable with ultra heavy duty battery clamps. A cigarette lighter socket, 4 x LED worklight, and USB charging socket are also provided. Safety features such as reverse polarity protection and a master switch are provided. You can easily check the internal battery's condition at the touch of a button.

- 1 x USB charging sockets
- 1 x cigarette lighter sockets

SPECIFICATIONS	MB-3734
Battery	12V 12Ah Sealed Lead Acid
USB Output	5VDC 2.4A
12V DC Output	Single Port
Jump Start Amps	300A
Peak Battery Amps	1000A
Battery Status Indicator	Yes
LED Work Light	Included
AC/DC Charging Adapter	Included
12VDC Charging Plug	Included
Dimensions	251(L) x 173(W) x 307(H)mm
Gross Weight	6.1kg



NEW
2017

1
YEAR
WARRANTY

▲	Continuous	Peak	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	300A	1000A	MB-3734	\$129.00	\$115.95	\$102.95

12V 17Ah Jump Starter with Air Compressor

So much more than a jumpstarter. Sure, it has self-contained jumper leads and a huge 17Ah battery, so it'll bail you out of many situations. But the real utility of this unit comes from the additional features. There's a built-in air compressor to inflate tyres. There's a 5-LED high power work light on the front so you can see what you're doing. 2 x cigarette lighter sockets as well as 2 x USB sockets for powering and recharging many devices. An internal battery condition gauge helps you make sure it's ready for action, and it's all in a self-contained unit! Includes mains and 12V charging adaptors.

- 400A 12V jump starting
- 2 x USB charging sockets
- 2 x cigarette lighter sockets
- Air compressor with tyre inflator

SPECIFICATIONS	MB-3736
Battery	12V 17Ah Sealed Lead Acid
USB Output	2 Port 5V DC - 0.5A and 2.1A
12V DC Output	2 with Overload Protection
Jump Start Amps	400A
Peak Battery Amps	1100A
Compass	Included
Air Compressor with Tyre Inflator	Inbuilt with Air Pressure Gauge
Fuse	15A Included
Work Light	Included
AC/ DC Charging Adapter	Included
12V DC Charging Plug	Included
Dimensions	285(L) x 227(W) x 310(H)mm
Weight	8.6kg



NEW
2017

1
YEAR
WARRANTY

▲	Continuous	Peak	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	400A	1100A	MB-3736	\$189.00	\$169.95	\$150.95

LiFePO4 12V Jump Starter with Battery & Alternator Test

This jump starter has a built-in LiFePO4 battery, making it compact and lightweight, but still powerful enough to jump start cars, motorbikes, SUVs and boats. Features a 1W LED light which can be used as a worklight or set to flash as a warning light, USB ports to charge your USB devices. The blue backlit LCD will indicate the internal battery charge as a percentage, the vehicle's battery voltage and a host of other messages. It can also test the battery and alternator condition via your vehicle lighter socket!

- Battery and alternator tester
- Reverse polarity and short circuit protection
- USB port (2.4A total): 2 x USB
- LED work light
- USB charge cable and test lead included
- Dimensions: 230(L) x 140(D) x 70(H)mm

LiFePO4 EXPLAINED

Lithium iron phosphate (LiFePO4) is a technology proving to overcome the safety concerns that exist with Lithium ION (Li-ION) and other lithium battery technologies because it is chemically more stable. In particular, LiFePO4 is able to deliver extremely high surge currents without risk of the battery chemistry breaking down (and the battery exploding), holds a charge for a very long time, and is far more stable when exposed to high heat and other environmental conditions.

TECH TALK



1
YEAR
WARRANTY

▲	Continuous	Peak	Cat.	Qty 1+	Qty 2+	Qty 4+
12V	450A	600A	MB-3762	\$299.00	\$269.00	\$239.00

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JUMP STARTERS (CONTINUED)

12/24V 800A Li-ion Jump Starter/Power Bank

This is a no-nonsense heavy-duty jump starter suitable for most 12V or 24V vehicles including bus, trucks, cars, boats, jet ski, etc. It is capable of jump starting multiple times per single charge and works on both petrol and diesel engines. The Lithium-ion battery inside the robust enclosure produces an incredible 800A peak current and has a capacity of 22,000mAh. The jump starter also has 5V USB output to charge Smartphones, Tablets, digital cameras, GPS devices and much more. Also an LED light is built-in for emergency use.

Supplied with spark-proof alligator clamps, carry case and power adaptor.

SPECIFICATIONS	MB-3756
Battery capacity	22,200mAh
Battery type	Li-ion
Jump start current	12V (400-800A), 24V (300-600A)
Output	5V/2A; 12V/24V Jump start
Input	14V/1A (AC&DC Adaptor included)
Operating Temp	-20°C to +60°C
Dimensions	240 x 210 x 58mm
Weight	1.6kg

This unit will fit under the seat of most cars & 4WDs.



▲ Voltage	Continuous	Peak	Cat.	Qty 1+	Qty 2+	Qty 4+
12 / 24V	400A/300A	800A/600A	MB-3756	\$349.00	\$315.00	\$279.00

24V Heavy Duty Jump Starter/Power Bank

A 24V Heavy Duty Jump Starter with a high-capacity Li-Po battery built-in, capable of delivering up to 400A output. It features a power bank function with a USB output that can charge 5V devices up to 2.1A, suitable for Smartphones and Tablets. The LCD provides useful information such as battery status and the output voltage. This versatile unit also contains a front facing 3W LED light and a 49 LED worklight that fold opens from the side. It also features a user selectable 12VDC or 19VDC output, up to 3.5A (65W) via a common DC output lead with interchangeable plugs, suited for charging laptops or other similar items. It is also packed with safety features that include overload, over-temperature, short-circuit and reverse polarity protection.

Supplied with a battery clips, In-car and home mains charger and interchange DC plugs.

SPECIFICATIONS	MB-3752
Jump Starter output	24V, 400A
USB output	5V, 2.1A
DC output	12V / 19V 3.5A (65W)
Charge input	12VDC/2A
Dimensions	190(L) x 150(H) x 90(W)mm
Weight	1.3kg

Will start a Large Cruiser Boat!



▲ Voltage	Continuous	Peak	Cat.	Qty 1+
24V	400A	800A	MB-3752	\$299.00

RELATED PRODUCTS

Heavy Duty 400A Jumper Leads with LED Illumination

A super handy set of jumper leads to leave in the back of the car! Each battery clamp has a LED light built in, powered by built-in batteries, so even in the dark you can find your way around the engine bay. The jumper leads are fitted with a voltage surge protector to keep your vehicle electronics safe. Supplied in a clear plastic carry case.

- Voltage surge protection
- 400A current rating
- 8 x LR44 button batteries included
- 3m long



Extra-Heavy Duty 700A Jumper Leads with LED Illumination

These extra-heavy duty jumper leads have battery clamps with a helpful LED light built in, so you can find the battery terminals even in pitch black darkness. Rated at 700A, they are suitable for higher CCA (cold cranking amp) loads on big V6s, V8s and diesel 4WDs. At 4.5m long, they have that extra bit of length over your typical jumper leads, which always makes the difference when dealing with large 4WD engine bays. Fitted with a surge protector to protect sensitive electronics, and supplied in a handy clear plastic carry case. LEDs powered by built in batteries (included).

- Voltage surge protection
- 700A high current rating
- 8 x LR44 button batteries included
- 4.5m long



▲	Current	Length	Cat.	Qty 1+	Qty 3+	Qty 6+
	400A	3m long	WH-6012	\$34.95	\$31.45	\$27.95
	700A	4.5m long	WH-6014	\$69.95	\$62.95	\$55.95

Car Battery Type Clips

The 400 amp versions are very large and very strong. You cannot put your finger in the end, because it will probably give you a bite! These are ideal for our 300W and 500W inverters.

- All have insulated colour coded handles



▲	Current	Length	Max Jaw Opening		Cat.	Qty 1+	Qty 10+	Qty 50+
	15A	55mm	14mm	Pair	HM-3010	\$3.50	\$3.15	\$2.75
	30A	70mm	20mm	Pair	HM-3012	\$3.95	\$3.45	\$3.15
	50A	98mm	25mm	Pair	HM-3015	\$5.50	\$4.90	\$4.30
	200A	130mm	35mm	Pair	HM-3060	\$9.95	\$8.75	\$7.75
	400A	155mm	22mm	Pair	HM-3085	\$15.95	\$14.35	\$12.70

RELATED PRODUCTS

FROM
\$12.95/m
WH-3067



80A DC CABLE

P162

FROM
\$24.95
ST-3267



FIRST AID

P496

FROM
\$12.95
NA-1200



HAND LOTION

P183

FROM
\$9.95
ST-3209



HEAD TORCHES

P487

AIR COMPRESSORS

12VDC Air Compressors

Powerful air compressors great for a variety of outdoor activities and emergency situations such as pumping flat car/4x4/truck tyres, inflatable boats, air beds, etc.

Both models incorporate automatic thermal cut-out for added protection as well as cleanable air filters to keep the units free from dirt and other contaminants.

Includes heavy duty battery clamps for secure connection to your 12V power source and extendable coil hoses for reaching those tricky spots. Each unit has anti-vibration mounting feet to ensure they stay planted to the ground and a foam grip handle.

Accessory nozzles for pumping bike tyres, balls, and other inflatables included as well as a black carry bag.

SPECIFICATIONS	MC-7202	MC-7200
Power	12VDC	12VDC
Gauge	150PSI	150PSI
Current	35A	45A
Max pressure	150PSI	150PSI
Power	420W	540W
Max air flow	72L per minute	180L per minute
Hose	10m PA Hose	5m PA Hose
Dimensions	289(L) x 185(H) x 139(W)mm	345(L) x 215(H) x 150(W)mm

AIR COMPRESSORS

TECH TALK

How do you know you are getting a good compressor?

The real way is to pull the compressor apart and check the piston.

A good compressor will have a steel piston in an alloy cylinder, or an alloy piston in a steel lined cylinder. An easier way is to look at the construction of the tyre inflator.

Cheap compressors supply a poorly built & flimsy unit.

Check ours out.



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲ 72L/Min	MC-7202	\$129.00	\$115.95	\$102.95
▲ 180L/Min	MC-7200	\$199.00	\$178.95	\$158.95

24VDC TO 12VDC CONVERTERS

24VAC/DC to 12VDC 1A Converter

Trying to get power for CCTV and security cameras over a long run without losses is challenging to say the least. Solve the problem quickly and easily by sending 24VAC down the long run, then converting it to 12VDC when you get it where you need it.

Connection is by screw terminals.

SPECIFICATIONS	MP-3350
Input	20 - 28VAC, 16 - 30VDC
Output	12VDC regulated
Output current	1A max
Dimensions	90(L) x 25(W) x 25(H)mm



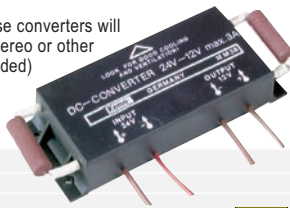
▲ Current (max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
1A	MP-3350	\$39.95	\$35.95	\$31.95

24VDC to 12VDC 3A Converter

Many trucks and boats use 24V systems. These converters will allow you to run a reasonably sized 12V car-stereo or other devices from a 24V supply. Heatsink (not included) should be used for superior performance.

- Short-circuit protection
- Thermal cutout

SPECIFICATIONS	AA-0266
Input voltage	24 to 26 VDC
Output voltage	12VDC
Maximum load	3A
Dimensions	135 x 50 x 24 mm
Heatsink	50 x 100 x 30 mm (rec. size), use Cat. HH-8572 or similar



▲ Current (max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
3A	AA-0266	\$29.95	\$26.95	\$23.95

24VDC to 12VDC 5A Converter with USB

Converts 24VDC to 12VDC so that you can use normal car accessories designed for 12V vehicles. With a cigarette lighter plug for 24V input and a cigarette lighter socket for the 12V output. Max rated current is 5A and also has a USB output with 1A current to charge your mobile phone etc.

SPECIFICATIONS	MP-3354
Input voltage	12 - 30VDC
Output voltage	12VDC
Max. output current	5A
Continuous output current	4A
Efficiency	85%
Dimensions	100(L) x 76(W) x 38(H)mm



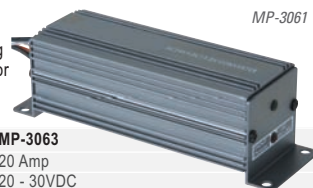
▲ Current (max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
5A	MP-3354	\$64.95	\$58.45	\$51.95

24VDC to 12VDC Converters

DC to DC converters are useful for running 12V devices from a 24V supply in a truck or bus. These have switchmode technology for light weight & compact design.

SPECIFICATIONS	MP-3061	MP-3063
Current	10 Amp	20 Amp
Input voltage	20 - 30VDC	20 - 30VDC
Output voltage	13.8VDC	13.8VDC
Max. output current	10A	20A
Continuous output current	7A	15A
Efficiency	85%	85%
Dimensions L x W x Hmm	160 x 48 x 48	210 x 90 x 50

MP-3061



▲ Current (max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
10A	MP-3061	\$74.95	\$67.45	\$59.95
20A	MP-3063	\$119.00	\$106.95	\$94.95

Regulated 12VDC Car/Truck Power Adaptor 6A

Supplies a regulated 12VDC output at up to 6 amps, more than enough for a portable DVD player, TV, LCD screen or any other 12 volt device. You can also use it to run a DVD player from your car's 12 volt supply, as many portable DVD players will only run on a regulated 12 volt supply and will self-destruct if connected to the typical 13.8 volts of a car's electrical system.

- Supplied with 7 DC connectors

SPECIFICATIONS	MP-3064
Input	11-28VDC
Output	Regulated 12VDC @ 6A
Lead length	Input - 450mm, output - 1400mm
Case size	138(L) x 60(W) x 32(H)mm



▲ Current	Cat.	Qty 1+	Qty 3+	Qty 6+
6A	MP-3064	\$69.95	\$62.95	\$55.95

24VDC to 12VDC 10A Converter

Ideal for running 12V devices from a 24V supply in a truck or bus. These have switchmode technology for light weight and compact design and are rated for 10A. Input and output is via cigarette lighter plug and socket.

SPECIFICATIONS	MP-3352
Input voltage	20 - 30VDC
Output voltage	13.8VDC
Max. output current	10A
Continuous output current	7A
Efficiency	85%
Dimensions	160(L) x 48(W) x 48(H)mm



▲ Current (max.)	Cat.	Qty 1+	Qty 3+	Qty 6+
10A	MP-3352	\$89.95	\$80.95	\$71.95

CAR POWER SUPPLIES

12V to 5VDC Power Converter

Use this wiring kit to get rid of those unsightly and annoying power cables floating around your car dash that power your GPS, Dash cam or mobile device. Simply hardwire it to the 12V power fuse panel in your vehicle and plug the micro USB plug (micro USB adaptor also included) into the device you need to power. If your vehicle uses blade fuses then wiring can be made easier using our SF-5115 or SF-5125 blade fuse sockets, which patch into the fuse panel.

- Micro USB Plug (Mini USB adaptor included)
- 2.1A continuous current
- Cable length 1.3m



▲ Length	Cat.	Qty 1+	Qty 3+	Qty 6+
1.3m	MP-3675	\$19.95	\$17.95	\$15.95

6 Plug DC to USB Lead Kit

Handy DC to USB lead pack allows you to power up devices using 5V from a USB port. Includes 6 different size tips which include .35, 1.5, 1.7, 2.1, 2.5mm DC and 3.5mm Audio jack.

- Cable length: 1m



▲ Length	Cat.	Qty 1+	Qty 4+	Qty 10+
1m	PP-1985	\$14.95	\$13.45	\$11.95

12VDC 1.2A Car Power Adaptor

Use your car's cigarette lighter socket to power or charge a variety of portable electronic devices such as mobile phones, personal audio players, handheld video game consoles and PDAs.

Choose from 7 different DC voltages and 6 different adaptor tips.

SPECIFICATIONS	MP-3678
Input voltage	12VDC
Output voltage	1.5, 3, 4.5, 6, 7.5, 9 or 12VDC
Output current	1.2A
Cable length	1.8m
Dimension	99(L) x 55(W) x 45(D)mm



▲ Current	Cat.	Qty 1+	Qty 3+	Qty 6+
1.2A	MP-3678	\$19.95	\$17.95	\$15.95

3A Car Power Adaptor with USB Outlet

Select a DC voltage and adaptor tip combination to power or charge a wide range of consumer electronics goods such as personal audio players, digital cameras, handheld gaming consoles, mobile phones, PDAs, PSP, etc.

Many modern devices will also charge via the USB outlet.



SPECIFICATIONS	MP-3671
Input voltage	12VDC
Output voltage	3, 4.5, 5, 6, 7.5, 9.5, 12VDC
Output current	3A
USB output	5VDC, 1A
Power Indicator	LED
Dimensions	80(L) x 76.2(W) x 33(D)mm

See our range of In-Car & Cigarette Lighter Chargers on pages 455

▲ Current	Cat.	Qty 1+	Qty 3+	Qty 6+
3A	MP-3671	\$29.95	\$26.90	\$23.70

Car Battery Discharge Protector

This handy device plugs straight into your vehicle cigarette lighter socket, and warns you when battery power is running low. Not only that, but it disconnects power through the unit when power gets too low. This means you can run 12V lighting, an inverter or charger etc, and not risk draining your battery such that it causes damage. Simple plug and play operation, no tools required!

- Low battery level indication
- Automatic power disconnection

SPECIFICATIONS	MB-3676
Max Power Output	8A
Connection	Cigarette Lighter
Circuit Protection	10A Fuse
Dimensions	95(L) x 35(W) x 155(H)mm
Weight	138g



▲ Current	Cat.	Qty 1+	Qty 5+	Qty 10+
8A	MB-3676	\$29.95	\$26.95	\$23.95

5A Regulated 12VDC Car Power Adaptor

This adaptor will power MP3 players, games, CD players, appliances or anything else that requires 5 - 12VDC at up to 5A. It's also fuse protected & includes four plug adaptors to suit most popular devices.

- Four plug adaptors
- Selectable voltage: 5, 6, 9 & 12VDC
- Fuse protected
- Lead length: 1400mm



▲ Current	Cat.	Qty 1+	Qty 3+	Qty 6+
5A	MP-3478	\$39.95	\$35.90	\$31.90

Universal GPS Charger with Dual USB Output

This very handy universal GPS charger not only works as a replacement for an original GPS charger, but having two USB outputs and higher output power offers a bonus - allowing you to charge both your GPS and your mobile phone (or other USB device) at the same time! With 2.1A available from each USB port, it has enough power for even the latest and greatest big screen GPS models, whilst still having enough power left over to charge a second USB device. Supplied with 1.2m USB charging lead and 6 replaceable connectors to suit most GPS models.

- Suitable for: TomTom, TomTom XL, Navman, Garmin, Magellan, Navigon, Falk, Mio, etc
- Input: 12-24VDC
- Output: 5VDC, 2.1A max per USB port (4.2A total)
- Dimensions: 100(L) x 42(W) x 25(H)mm



▲	Cat.	Qty 1+	Qty 5+	Qty 10+
1.2m 4.2A total	MP-3676	\$29.95	\$26.95	\$23.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!



SHOW US YOUR BUILD COMPETITION

Albury, who shops at our Jaycar store built:

I have made this EJ Holden completely out of timber at 1:5 scale. It has a working radio, all lights, the motor runs, wipers work and horn works to complete this project.

Jaycar was the place to get the electrical tape, wires, radio and LEDs switches.



MARINE AUDIO

A WORD ABOUT JAYCAR RESPONSE BRAND AUDIO PRODUCTS

Jaycar has been selling direct-import audio products for almost 30 years. In that time we have sold tens of thousands of general, Hi-Fi and car sound speakers, Home Cinema products, MP3 players, and thousands of car and marine head units. We have developed an expertise with specially buying staff and long-term relationships with factories that we can trust. In these pages you will find products that are not national brand names (Many of the factories that we use actually make a lot of the national brand names, but we are legally prevented from telling you who

they are). When Jaycar negotiates with a factory, we specify what we think is useful to you and what is rubbish (like rainbow coloured lighting displays). In buying such products from us, you get the same (or better) warranties, but the bonus sensible-specification products from a firm with a strong engineering background.

RESPONSE

In-Dash Marine AM/FM Radio with MP3 Player

An attractive marine radio perfect for your boat but can be used for automotive purposes. In addition to standard AM/FM radio the front panel includes USB & SD card slots which allow playback of MP3s. There's also a 3.5mm auxiliary port so you can connect an iPod®, headphones, or Smartphone for playing back music. The unit can be controlled with the infrared remote or front panel interface. For audio tinkerers, a myriad of settings are available including bass, treble, balance, and fade settings. There are also rock, pop, and classical equalisation pre-sets to suit your taste in music. Installation is straightforward, just connect via the supplied 14pin plug, all speaker cables are labelled to streamline the install. The USB, SD card and AUX sockets all come with splashproof silicone covers.

- MP3/USB/SD Player
- Rust-resistant chassis
- ISO/DIN mountable
- Electric Detachable Panel
- UV-resistant faceplate and trim ring
- 3.5mm front panel aux input
- USB/SD front panel input
- Wireless infrared remote
- Power: 8.25WRMS - 8 Ohm x 4
13WRMS - 4 Ohm x 4
- Dimensions: 189(L) x 117(W) x 57(H)mm



QM-3819

Can be used for automotive purposes



QM-3815

	Cat.	Qty 1+	Qty 2+	Qty 4+	
▲ Marine Radio	QM-3815	\$99.95	\$89.95	\$79.95	3 YEAR WARRANTY
Waterproof Cover	QM-3819	\$14.95	\$13.45	\$11.95	

5" & 6.5" Marine Coaxial Speakers

A pair of marine worthy speakers designed to withstand the demands of ocean use and provide excellent audio quality in your boat. Both models feature high salt and UV resistance and are fully splash proof thanks to the special indented design.

RESPONSE

SPECIFICATIONS	CS-2410	CS-2412
Frequency	80-20KHz	65-20KHz
Sensitivity	88dB/W/M	89dB/W/M
Max Power	100W	120W
Magnet	5.3 oz	10oz
Voice Coil	25mm	25mm
Impedance	4 ohms	4 ohms
Woofer	Injection Cone	Injection Cone
Midrange and Tweeter	30mm Mylar Dome Tweeter	35mm Mylar Dome Tweeter
Dimensions:	A=150mm, B=135mm,	A=180mm, B=164mm,
See page 506 for chart	C=111mm, D=45mm	C=128mm, D=60mm



2 YEAR WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
▲ 5" Pair	CS-2410	\$34.95	\$31.45	\$27.90
6.5" Pair	CS-2412	\$44.95	\$40.45	\$35.90

RELATED PRODUCTS

MARINE RADIO & SPEAKER PACKAGES

+ More specifications on each product is shown above

Package #1

- Combines our Marine Radio (QM-5815) with our 5" Marine Speakers. (CS-2410)



RESPONSE

Package #2

- Combines our Marine Radio (QM-5815) and our 6.5" Marine Speakers. (CS-2412)



RESPONSE

	Cat.	Qty 1+		Cat.	Qty 1+
▲ Marine Radio & 5" Speakers	QM-3816	\$109.00		▲ Marine Radio & 6.5" Speakers	QM-3817
					\$119.00

CAR ANTENNAS & ACCESSORIES

Standard Lockdown

- 4 section
- Extends to 770mm
- Cable length 1.2 metre

▲ Cat.	Qty 1+	Qty 4+	Qty 10+
AR-3250	\$8.95	\$7.95	\$6.95



Rubber Topmount

- Small rubber antenna bends when it hits something.
- Good for 4WDs etc.
- 1 section
- Length 350mm
- Cable length 1.2 metre.

▲ Cat.	Qty 1+	Qty 4+	Qty 10+
AR-3260	\$18.00	\$15.95	\$14.35

Car Aerial Extension

- Need a longer aerial lead in your car?
- Standard aerial socket to plug.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
3m	AR-3253	\$8.95	\$7.95	\$6.95

Car Radio Antenna Line Plug

- Solder type.
- Standard antenna plug



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PP-2040	\$1.65	\$1.45	\$1.30

Car Radio Antenna Line Plugs

SOLDERLESS CAR RADIO ANTENNA LINE PLUG

Replacement or connector for new antenna installation.

PP-2044



CAR RADIO ANTENNA LINE PLUG

- Solder type with plastic strain relief.

PP-2041



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Solderless	PP-2044	\$2.95	\$2.60	\$2.30
Solder type	PP-2041	\$2.50	\$2.21	\$1.95

Solderless Car Radio Inline Socket



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PS-2046	\$3.95	\$3.45	\$3.15

Car Radio Antenna Adaptor Plug

Converts Motorola to European style antenna sockets.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-2048	\$4.95	\$4.45	\$3.90

Car Radio Antenna Adaptor Plug

Converts European style antenna plug to Motorola style antenna plug.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	PA-2038	\$4.95	\$4.45	\$3.90

ACOUSTIC SOUND ABSORBING DEADENING

Ideal for car sound installations. One of the most hostile environments for a loudspeaker is in the door of a car. It is made out of flexible sheet steel which, when it is not vibrating & absorbing energy by rattling or buzzing, is reflecting energy all over the place! To produce Hi-Fi sound in a car you not only need to control the acoustics of the car environment. As any professional will tell you, it's the installation which makes for sound quality more than any other factor.

Heavy Duty Sound Barrier Damping Material

This is basically a flexible plastic-like material that forms an attenuating / reflecting sound barrier. The product is made of 25% PVC loaded and spread evenly with barium mineral powder which takes up the other 75% (by weight) of the product. The barium mineral is very heavy and makes the vinyl heavy and impenetrable to sound waves. It's sort of like if lead was plastic! It weighs 4kgs per square metre. It is ideal for any surface that needs to be 'deadened' e.g. car door or floor panels. It completely damps (ie prevents) any panel resonating from high power speakers. It is also amazing for attenuating road noise from steel car floors, etc. It can be cut with a hobby knife or good scissors etc. The material is held in place with spray or gel contact cement. One sheet is generally enough for the average car door.

- Supplied in a polyethylene bag.



SPECIFICATIONS	AX-3680
Sound transmission class	26
Humidity	Unaffected
Stability	Indefinite
Sheet	700 x 330 x 2.3mm thick (approx)

CHEMICAL RESISTANCE	MECHANICAL PROPERTIES
Petrol/Diesel	Moderate
Acetone	Good
10% HCl	Good
10% NaOH	Poor
	Density 1.74 g/cm³
	Tensile 3000N/50mm
	Elongation <0.2%
	Working Temp 0°C to 95°C

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Per Sheet	AX-3680	\$13.95	\$12.55	\$11.15

Self-Adhesive Sound Absorbing Foam

The perfect ultra light weight insulator to use in conjunction with AX-3687. This durable crush and tear-resistant material has the highest heat blocking properties available in a single layer synthetic foam-type material. Not affected by oil and does not absorb water. It provides acoustic isolation and excellent thermal insulation for roof, firewall, floor, quarter panels, doors and even as an under bonnet liner. Adhesive backed for easy installation.

- Dimensions: 660 x 330mm / Thickness: 5mm
- Temperature range: -15 - 100°C



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Sheet	AX-3662	\$14.95	\$13.35	\$11.70

Butyl Based Sound Deadening Material

Give your vibrating buzz-box a luxury car ride with this butyl-based, foil backed sound deadening material. By adding weight to the metal panels of your car, such as door skins, boot lids, quarter panels, etc, you can stop nasty vibrations, reduce road noise, and give your doors and boot a nice solid "thud" when they shut. Each sheet is self-adhesive, and can be easily moulded, cut and stuck onto virtually any metal surface of your vehicle's body, giving you a pleasant, quiet and comfortable ride. Combine with our AX-3662 Sound Absorbing foam to add thermal insulation and eliminate low frequency humming from big exhaust systems for an even more comfortable vehicle interior.

- Dimensions: 900 x 330mm / Thickness: 1.5mm
- Temperature range: -10 - 110°C



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Sheet - 900 x 330mm	AX-3687	\$29.95	\$26.95	\$23.95

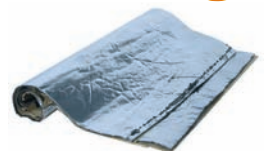
Butyl Based Sound Deadening Material

A staple of our range for many years, this heavy bitumen based lining material is ideal for reducing vibrations and noise transfer. The self-adhesive material can be easily moulded, cut, and stuck onto virtually any metal surface to add weight and decrease noise. Now available in a bulk roll for a limited time, these 3.25m rolls are ideal for larger jobs such as full vehicle restoration or lining the engine area on a vessel.

- Thickness: 1.5mm
- Temperature range: -10 to 110°C
- Roll Dimensions: 330mm x 3.25m

NOT AVAILABLE IN NEW ZEALAND

NEW
2017



▲	Cat.	Qty 1+
330(W)mm x 3.25m	AX-3681	\$79.95

Combination Butyl/Foam Super Sound Deadener

Combining both the sound deadening properties of butyl material, and insulating properties of honeycomb foam, this is an easy single application solution for complete sound deadening and isolation that also offers thermal insulation. Consisting of a layer of our AX-3687 Butyl Based sound deadener and a 3.0mm thick layer of honeycomb foam (similar to our AX-3662), lining the cabin of your vehicle with these sound deadening sheets will give you drastically reduced road noise, less panel vibration and a cooler cabin temperature. Application is easy with the self adhesive backing and ability to mould to the shape of the panel. Ideal for door skins, head linings, door cards and under bonnet insulation.

- Dimensions: 660 x 330mm / Thickness: 4.5mm (1.5mm butyl, 3.0mm foam)
- Temperature range: -10 - 100°C



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Sheet	AX-3689	\$29.95	\$26.95	\$23.95

RESPONSE CAR SPEAKERS

Low cost doesn't mean low quality. Coax speakers are an ideal replacement for the standard speakers you get in the average car. All are equipped with titanium coated fibre woofers and silk dome tweeters for smooth high frequency response. Sold as a pair

RESPONSE

4" Coax 2 Way

CS-2310



5" Coax 2 Way

CS-2312



6.5" Coax 2 Way

CS-2314



6 x 9" Coax 2 Way

CS-2316



SPECIFICATIONS	CS-2310	CS-2312	CS-2314	CS-2316
Power handling	15WRMS	17WRMS	22WRMS	27WRMS
Nominal impedance	4 ohms	4 ohms	4 ohms	4 ohms
Frequency response	90Hz - 18kHz	70Hz - 18kHz	60Hz - 20kHz	55Hz - 18kHz
Sensitivity	83dB SPL @1W, 1m	85dB SPL @1W, 1m	88dB SPL @1W, 1m	86dB SPL @1W, 1m
Qms	3.2	4.28	4.88	4.76
Qes	1.85	1.88	1.5	1.57
Qts	1.18	1.31	1.15	1.18
Vas	1.45 litres	3.31 litres	10.18 litres	17.3 litres
Fo	122Hz	106Hz	75Hz	61Hz



▲ A	B	C	D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
102	115	93	42	CS-2310	\$32.95	\$28.95	\$25.95
130	138	115	44	CS-2312	\$34.95	\$31.45	\$27.90
166	158	142	52	CS-2314	\$44.95	\$40.45	\$35.90
236 x 165	205	218 x 148	75	CS-2316	\$69.95	\$62.95	\$55.95

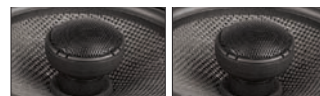
RESPONSE PRECISION KEVLAR COAXIAL CAR SPEAKERS

These are our ever popular Response Precision Kevlar Coaxial Speakers that have won many awards and magazine recommendations in the past, only with a new look. The Kevlar speaker cone is now supplied in Black but it still retains its outstanding performance that we are all accustomed to. The tweeters are still the original soft dome tweeter that provide clean, crisp sounds and maintains a natural and smooth balanced sound; nestled in an adjustable bracket for optimal sound trajectory. Virtually unchanged in design and performance, we have put our efforts in changing one thing; the price. Now at a more competitive price points; these coaxial speakers are great value for money topped with award winning performance. Sold as a pair



RESPONSE PRECISION

All models are paired with Soft Dome Tweeters!



4" Kevlar/ Dome Tweeter 2 Way

CS-2400



5" Kevlar/ Dome Tweeter 2 Way

CS-2401



6.5" Kevlar/ Dome Tweeter 2 Way

CS-2402



SPECIFICATIONS	CS-2400	CS-2401	CS-2402
Power handling	40WRMS	50WRMS	75WRMS
Nominal impedance	4 ohms	4 ohms	4 ohms
Frequency response	90Hz - 20kHz	60Hz - 20kHz	65Hz-20kHz
Sensitivity	88.5dB SPL @ 2.83V, 1m	89dB SPL @ 1W, 1m	89dB SPL @ 1W, 1m
Qms	5.478	5.6	6.423
Qes	0.935	0.652	1.108
Qts	0.798	0.584	0.945
Vas	3.079 litres	7.87 litres	9.208 litres
Fo	91.97Hz	68.5Hz	71Hz



▲ A	B	C	D(mm)	Cat.	Qty 1+	Qty 4+	Qty 10+
102	90	47	45	CS-2400	\$79.95	\$71.95	\$63.95
130	118	64	60	CS-2401	\$99.95	\$89.95	\$79.95
178	157	135	65	CS-2402	\$119.00	\$106.95	\$94.95

RELATED PRODUCTS

FROM
\$4.15

WH-3060



56A DC CABLE

P161

FROM
\$7.95

WH-5525



HEATSHRINK

P165

FROM
\$9.95

HP-1235



DUNE TUBE

P167

FROM
\$64.95

AA-0442



AMPLIFIER WIRING KIT

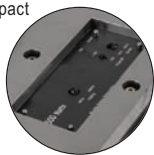
P461

ACTIVE SUBWOOFERS

8" Under Seat Active Subwoofer

Add some bottom end to your car audio, even if you don't have room for a sub. MOSFET output stage for low distortion and noise. The compact size means it will fit under a seat and is robust enough to take some knocks.

- Ideal for utes, convertibles and trucks.



SPECIFICATIONS

Power output	55WRMS
Frequency response	60 - 480Hz
S/N ratio	70dB
THD	0.06%
Input sensitivity	Line level 200mV Speaker level 800mV
Low pass filter	40 - 280Hz @ 12dB/octave
Variable gain	0 - 18dB @ 50Hz
Phase shift	-180 - 180
Dimensions	360(L) x 250(W) x 80(H)mm

CS-2286



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
8" Active Subwoofer	CS-2286	\$169.00	\$151.95	\$134.95

NOTES ABOUT SPEAKER SPECIFICATIONS

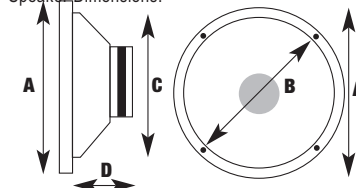
TECH TALK



• In an effort to assist customers choices between speakers, our entire speaker range have been assessed and measured under the same test conditions. Therefore making the resulting data in this catalogue comparable.

• All drivers have been measured for Thiele and Small parameters after a period of "Breaking In" for a minimum of 15 hours, and not tested straight off the shelf. This ensures a more long term and realistic result.

Speaker Dimensions:



- A = From one side to the other
- B = Mounting holes - diagonal
- C = Cut out in millimetres
- D = Depth

CAR AUDIO ACCESSORIES

Line Level Control (Attenuator)

This unit when fitted in a signal line allows you to adjust downwards excessive signal levels. You may have, for example a source from a CD/MP3 player and a tuner. Often one source is too loud (at line level) to the other.

- Stereo
- RCA line sockets in/out
- Dimensions: 60(L) x 55(W) x 37(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-3078	\$9.95	\$8.75	\$7.75

Car Radio Suppressor

Traditional condenser type.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-3060	\$3.95	\$3.45	\$3.15

GROUND LOOP ISOLATORS

Ground Loop Isolator (Stereo) 3.5mm

Used to eliminate ground loop problems in audio installations. The unit has a 3.5mm stereo sockets on both ends. Suitable for use with laptops, mp3 players, iPods® etc. Note: Units AA-3074/78/84 & 86 can be fastened to any surface, fitting etc by simple cable ties.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-3086	\$10.95	\$9.85	\$8.75

Ground Loop Isolator (Stereo) RCA

Used to eliminate ground loop problems (usually manifested as a low hum) in audio connections. The earthing brown ground wires sometimes helps even more.



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AA-3084	\$9.95	\$8.75	\$7.75

Speaker (High Level) to Line Level Converter

Converts high level (high power) speaker signals back down to low level (i.e. line or <1volt signals). You can then use those signals as line inputs to amps without potential damage to amps or other speakers. Features variable attenuators to reduce signal up to 6 times.

- RCA socket out (stereo)
- External dimensions: 90(L) x 35(H) x 57(W)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	AA-0482	\$14.95	\$13.35	\$11.70

CAR NOISE FILTER

10A DC Noise Filter

Arrests any noise on the DC power supply to car stereos, CBs etc better than ever. Most importantly it enables the installer to mount the unit without drilling mounting holes. You can secure this unit with cable ties. It will also "saddle" on a wiring loom if necessary. Has 10A rated + & - DC leads & separate earth lead which should be terminated to chassis.

- Dimensions: 90(L) x 60(W) x 33(H)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
10A	AA-3074	\$14.95	\$13.35	\$11.70

CAR NOISE FILTERS

TECH TALK



Car noise filters or hot line filters are used to reduce noise and interference entering your car stereo through the power lead.

The car alternator is one of the most common sources of problems, and these essential devices can help to reduce this.

SHOW US YOUR BUILD COMPETITION

Samuel, who shops at our Jaycar Mackay store built:

Well I made an esky speaker for last years Triple J hottest 100 but the boys agreed that we need more bass.

So on Australia Day the Bin Boombox will be making a special appearance turning heads at the harbour. Most little parts like the antenna, isolator switch and wires came from my favourite shop.



CAR ACCESSORIES

Amplifier Remote Signal Switcher

This device connects to the speaker output of your car's head unit or amplifier. Once it detects that there is audio playing it triggers a relay so you can trigger other audio components, including an amplifier or CD stacker.

- It features a 2-3 second delay to help avoid any turn-on pop in aftermarket amplifiers
- Dimensions: 58(L) x 45(W) x 28(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	AA-0419	\$9.95	\$8.75	\$7.75

DIY CAR INSTALLATION

TECH TALK



When it comes to DIY car installation Jaycar carries the best range of accessories and wiring materials around.

For example, we have automotive wiring from 3A rating up to hundreds of amps. We have circuit breakers, terminal boxes, sound insulation, tools - well, everything!

It would be really worth your while to have a comprehensive read.

You will be staggered by our range of products!



DIY

4 Channel High Quality Line Level Converter

An improved speaker to line level converter solution over the low cost and poor performance transformer type. This premium 4 channel LOC offers low distortion and exceptional power handling of up to 150W. Individual output gain controls are available and has a remote output for amplifier trigger. Uses a Molex plug and wiring harness for quick and simple installation.

- Super low distortion
- Adjustable output
- 150W Maximum input
- Remote output trigger
- Dimensions: 93(W) x 105(H) x 29(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	AA-0418	\$39.95	\$35.90	\$31.90

Quick Release Car Audio Power Connector

Designed to offer safe and fast removal of your high power car audio, secondary battery or other high current DC set up. Acts as a heavy duty quick release plug and socket that connects positive, negative and remote wires. It has two components - one end to connect to your equipment and the other to your power source. Capable of handling up to 140A. Comes with a bracket for secure mounting.

- Dimensions: 62(L) x 48(W) x 31(D)mm



	Cat.	Qty 1+	Qty 4+	Qty 10+
▲	HC-4067	\$29.95	\$26.95	\$23.70

2 Channel Line Level Converter

Connects to the speaker output of your car's head unit and converts the high level speaker output to a high quality line level output for the aftermarket car amplifier. This device boosts the output signal up to 10V RMS (Peak); an improved signal quality less prone to interferences and produces better quality and powerful sound. It also provides a remote output to turn on the amplifier and other audio components. It features a Molex plug that makes the whole installation process quite easy.

- Super low distortion
- Adjustable output step down
- Adjustable line level output up to 10V
- Quick auto signal sense turn on
- Remote output trigger
- Dimensions: 120(W) x 76(H) x 26(D)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	AA-0416	\$29.95	\$26.95	\$23.70

Speaker Cable - Extra Heavy Duty Figure 8

Cable is 2 x 79/0.2mm.

ROLL LENGTH 30 METRES



See page 161 for DC Power Cable

	Cat.	1+ Rolls	4+ Rolls	10+ Rolls
▲	WB-1713	\$74.95	\$67.50	\$59.00

CAR ACCESSORIES

MP3 FM Modulator with Remote - 12/24V

This unit will play MP3 tracks directly through your car stereo through the FM band. Music can be stored on an SD/MMC card, USB memory stick or an external media player (iPods®, MP3 players) can be plugged in via the auxiliary input. It has a backlit LCD and a fully adjustable arm for multi angle viewing. It also remembers the last played frequency, song and volume.

- Accepts SD/MMC, USB or aux input
- FM Frequency: 87.5 to 108MHz
- 12V - 24VDC operation
- Supports folders
- Includes infrared remote control & 3.5mm AUX lead
- Dimensions: 130(L) x 40(W) x 25(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	AR-3136	\$14.95	\$13.45	\$11.95

Smartphone Media Button

Great for the car, gym or around the house. Sync with your Bluetooth® enabled device for volume, play/pause, and next/previous track. Very light & compact.

- Plug and Play
- Bluetooth® Standards
- Supplied with steering wheel mount
- Active Range: 40m
- Battery: CR2016 3V
- Dimensions: 35(Dia.) x 8(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	AR-3137	\$29.95	\$26.95	\$23.95

FM Transmitter with Bluetooth® & 2.1A USB Charger

Allows you to transmit phone calls from a Bluetooth® enabled phone to your car's FM radio receiver. Features a 2.1A USB charging port and will also play audio via the external input socket or MP3 files stored on USB disk or SD card. Auto switch between music and phone calls. Powered by the vehicle lighter socket (12 or 24 volt).

- Frequency range: 87.5-108MHz
- Includes remote control



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	AR-3133	\$44.95	\$39.95	\$35.95

Spring Clamp Suction Mount Phone Holder

Suits virtually any smartphone, and securely mounts to your windscreen or other non-porous flat surface with a super strong suction cup. The bracket adjusts to firmly hold your phone in place. The ballhead allows total 360° rotation. Bracket adjusts between 55 and 80mm.

- High strength suction cup
- Universal phone compatibility
- 360° rotation
- Weight: 65g
- Dimensions: 125(L) x 75(W) x 95(H)mm



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	HS-9039	\$19.95	\$17.95	\$15.95

150W Can-Sized Power Inverter with 2.1A USB Output

Fits in the car's cup holder, plugs into the cigarette lighter socket and outputs 230VAC to power a variety of 230VAC equipment from a battery charger to a laptop power supply. Also features a USB port with 2.1A output, allowing you to quickly charge many modern electronics gadgets, including power-hungry Tablets. It also features electrical isolation to prevent sudden mains voltage at your cigarette lighter socket.

- Powered by cigarette lighter socket adaptor
- Modified sine wave
- USB Output: 5VDC 2.1A
- Dimensions: 165(L) x 60(Dia.)mm



USB Port

POWERTECH



	Cat.	Qty 1+	Qty 3+	Qty 6+
▲	MI-5127	\$59.95	\$53.95	\$47.95

MONITORS

7" TFT LCD Widescreen Colour Monitor with IR Remote

This 7" TFT Widescreen LCD Monitor delivers high resolution pictures in widescreen format and clear sound reproduction through its inbuilt speaker. It is extremely lightweight and is suitable for all sorts of mobile and fixed monitoring applications. Suitable for in-car and home entertainment, use it to watch DVDs, PS2®, XBOX®, etc. can be used for monitoring or surveillance purposes. Two RCA composite video inputs and one audio input are provided for a multi source system. This is truly a versatile monitor, it has low power consumption, wide viewing angle, and is NTSC and PAL compatible.

It is equipped with On Screen Display enabling the user to easily control the colour, contrast, hue, brightness, and volume. A very slim and small infrared remote control is included. It has reverse image capability adjustable by pressing a button. The mirror-image function on this unit makes it ideal for buses with a camera to view behind while reversing. Unit comes with an adjustable swivel bracket with double sided tape for adhesion on clean flat surfaces. A 4 pin mini din to 2 RCA and power cable is also supplied.

SPECIFICATIONS	QM-3752	
System	NTSC/PAL	
Power Input	12-24VDC	<i>*Works with most, but not all widescreen sources. Will default to modified widescreen in some cases.</i>
Power Consumption	10W	
Screen Size	7inch (diagonal width)	
Display Method	TFT Active Matrix System	
Resolution	1140(h) x 234(v)	



Ideal for trucks



Wireless Stereo Headphones to Suit

Add a pair of wireless headphones and enjoy automotive bliss. Soft cushioned earpads for comfort, switchable between channel A & B.

SPECIFICATIONS	AA-2047
Driver diameter	27mm
Nominal impedance	32 ohms
Frequency response	120Hz - 20kHz
Sensitivity	100dB



	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
7" Colour Monitor	QM-3752	\$119.00	\$106.95	\$94.95
Wireless Headphones to suit QM-3752	AA-2047	\$39.95	\$35.90	\$31.90

9" High Resolution Auto LCD Monitor with HDMI Input - 12/24V

Ideal for the car or truck this 9" display monitor supplied with anti-glare shield to improve visibility during daylight. It incorporates composite RCA and HDMI inputs making it an ideal monitor solution for security, reversing or multimedia entertainment. Supplied with power cable and user manual.

SPECIFICATIONS	QM-3874
Screen Size	9"
Screen Ratio	16:9
Resolution	RGB 800 x 480
Backlight	LED, 250cd/m2
Contrast	500/1
View Angle	UP 50°, Down 70°, Left 70°, Right 70°
System	NTSC & PAL (Auto switch)
OSD Control	Brightness, Contrast, Colour, Volume
Power	12-24VDC, 7W
AV input	2 way video input, 2 way audio input
HDMI Input	1 x HDMI input (including audio)
Dimensions	240(W) x 163(H) x 26(D)mm



	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
9" Colour Monitor with HDMI	QM-3874	\$219.00	\$196.95	\$174.95

9" LCD Monitor with 4 Channel DVR - 12/24V

Connect up to 4 cameras and record all 4 channels with this 12/24V mobile DVR. Incorporates a large 9" colour display in a tough metal chassis with sunshade. It adopts industry standard 4G shockproof technology to ensure clear continuous video recording onto an SD card (available separately) while on the move. It's ideal for truck, bus, caravans and other heavy duty mobile installation.

• Supplied with power cable, remote control and user manual.

SPECIFICATIONS	QM-3872
Screen Size	9"
Screen Ratio	16:9
Resolution	800 x 480
Backlight	LED, 300cd/m²
Image Rotation	UP/Down and Left/Right
View Angle	UP 50°, Down 70°, Left 70°, Right 70°
Display	1,2,4 channel
System	NTSC & PAL (Auto switch)
Recording	4 Ch 640 x 480 at 60fps
Storage	SD, up to 32GB
Storage Format	AVI
OSD Control	Brightness, Contrast, Colour, Volume
Power	12-24VDC, 8W
AV input	4 Video inputs, 1 audio input
Dimensions	240(W) x 163(H) x 26(D)mm



	Cat.	Qty 1 +	Qty 2 +	Qty 4 +
9" Colour Monitor with 4 Channel DVR	QM-3872	\$269.00	\$239.00	\$209.00

DISCOUNT TRADE CARD



If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to

substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type and quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

Gadgets & Gizmos.



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WIRELESS WEATHER STATIONS

Compact Wireless Weather Station/Clock/Calendar

This stylish unit features moon phases for the Australian/NZ region. It does not have wind speed/direction but has everything else. It has an external temperature/humidity, barometric sensor, (which really should be on an outside window sill so that you can easily access it for battery change).

It has fantastic time logging:

- Clock, clock alarm/snooze
- Calendar, including Day announcement
- Barometer trend log
- Weather forecast icons: Sunny, Partly Cloudy, Cloudy, Rainy, etc
- Moon phase display (with tide indication)
- Sunrise/sunset time display
- Temperature/humidity display
- Temperature alert alarm



All-in-all excellent value for money.

SPECIFICATIONS	XC-0366	1 YEAR WARRANTY
Transmitter frequency	433MHz	
Power	2 x AA & 2 x AAA (not included)	
Dimensions	Console: 220(W) x 141(H) x 36(D)mm Transmitter: 100(W) x 55(H) x 22(D)mm	

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	Compact Wireless Weather Station XC-0366	\$64.95	\$58.45	\$51.95

CAN YOU TRUST THE BOM (BUREAU OF METEOROLOGY)?

They're not bad, but their weather forecast can end at the adjoining suburb! Find out what's happening in your backyard in real time with your own weather station!

Wireless Weather Station with 5.5" Mini LCD

Keep a weather station in the house to get a quick and accurate view of various weather parameters. This unit records temperature, wind chill, wind speed/direction, dew point, humidity and more. It also features alarm modes for temperature, humidity, wind chill and more. Easy to setup, just place the weather sensors outside and keep the LCD inside as a free standing unit or mounted on a wall. Data will be transmitted wirelessly to the display unit over distances up to 100m. It features an LED backlight for greater reading clarity in poor light.



- Records mix/max temperature
- Wind direction
- 12 or 24 hour time display
- Time alarm









SPECIFICATIONS	XC-0400	1 YEAR WARRANTY
Temperature range (Outdoor)	-40°C to 65°C (-40°F to 149°F)	
Temperature range (Indoor)	-9.9°C to 60°C (-14°F to 140°F)	
Windchill	-40°C to 65°C (-40°F to 149°F)	
Weather alarm mode	Temp, humidity, wind chill, dew point, rainfall, wind speed	
Wind speed	km/h, mph, m/s, knots, Beaufort	
Power	Outdoor sensor requires 2 x AA 1.5V LR6 Alkaline batts & 3 x AA 1.5V LR6 Alkaline batteries for Base station. Power supply included for base station.	
Dimensions (Base Station)	172(H) x 119(L) x 31(W)mm	

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	Wireless with 5.5" Display XC-0400	\$99.95	\$89.95	\$79.95

WEATHER STATIONS

COMPARISON GUIDE

	XC-0366	XC-0400	XC-0346	XC-0348	XC-0369	XC-0422
						
Touch Screen						
Indoor Thermometer	•	•	•	•	•	•
Outdoor Thermometer	•	•	•	•	•	•
Min/Max Records	•	•	•	•	•	•
Hygrometer	•	•	•	•	•	•
Wind Speed		•	•	•	•	•
Wind Direction		•	•	•	•	•
Wind Chill		•	•	•	•	•
Dew Point		•	•	•	•	•
Rain Gauge		•	•	•	•	•
Rain Rate		•	•	•	•	•
Barometric Pressure	•	•		•	•	•
Moon Phase	•					
UV Index					•	•
Solar Radiation					•	•
Time/Date Display	•	•	•	•	•	•
High/Low Alarms	•	•	•	•	•	•
Transmitter Power	2 x AAA	2 x AA	Solar Power	Solar Power	Solar Power	Solar Power
Upload to PC				•	•	•
Built-in Memory	•	•	•	•	•	•
Expandable Memory					•	•
Transmission Range	30m	100m	50m	50m	100m	100m
Page	510	510	511	511	512	512

WIRELESS WEATHER STATIONS (CONTINUED)**Wireless Weather Station with Solar Powered Sensors**

A feature-packed weather station for the enthusiast forecaster. The outdoor sensors are powered by a solar panel and will monitor up to 10 key weather parameters. The data is transmitted up to 50 metres to the indoor base station to keep you updated on current and future weather conditions. Solar powered means you'll never have to think about battery replacement.

The station will measure indoor/outdoor temperature, relative humidity, rain, wind speed, wind chill, dew point, barometric pressure and also displays the date and time. All minimum and maximum values with the date and time it was recorded will be stored for your reference on an easy to read display screen.

The unit includes a weather tendency indicator that will display 1 of 4 icons (sunny, cloudy, partly cloudy or rainy) indicating the likelihood of future weather. When the sensors detect a pressure fall of 3 - 9hPa, a storm warning will be displayed on-screen. The storm threshold value is user adjustable. Alarms for certain weather conditions can be programmed to alert you to potential atmospheric hazards.

If you enjoy outdoor activities that require specific weather conditions the alarm feature is a great tool to give you accurate information on potential trouble.

Base station requires 3 x AA batteries.

- Solar powered sensor
- Indoor and outdoor temperature display in Celsius or Fahrenheit
- Wind speed display in kmh, mph, knots or Beaufort scale
- Wind chill
- Rainfall data ranging from 1 hour up to 1 month or total since last reset
- Records all minimum and maximum values with time and date of their recordings
- Dew point display Celsius or Fahrenheit
- Weather forecast (sunny, cloudy, partly cloudy, rainy)
- Storm warning alarm
- Weather alarm modes for temperature, humidity, wind chill, dew point, rainfall, wind speed, air pressure, storm warning
- Perpetual calendar

Spare part - sold separately

2 x Spare rechargeable alkaline batteries Cat. XC-0343

**SPECIFICATIONS**

	XC-0346
Indoor temperature range	0°C to 50°C +/- 10%
Outdoor temperature range	-40°C to 65°C +/- 10%
Humidity range	1% - 99%
Hygrometer range	1%RH- 99%RH
Wind chill	Yes
Wind Speed	Yes
Rain gauge	0 - 9999mm
Dew Point	Yes
Wind Direction	No
Weather history record	Yes
Barometric Pressure	Yes
Frequency	433MHz
Wireless transmission range	50m
Display unit dimensions	150(L) x 30(W) x 160(H)mm
Height of outdoor mast	570mm (with sensors: 630mm)

**NEW
2017****1
YEAR
WARRANTY**

	Cat.	Qty 1+	Qty 3+	Qty 6+
Wireless with Touch Screen	XC-0346	\$149.00	\$133.95	\$118.95
Spare Battery - Pkt 2	XC-0343	\$9.95	\$8.75	\$7.75

Touch Screen USB Wireless Weather Station with Solar Powered Sensors

A highly advanced weather station with an unbeatable range of features to keep you fully updated on current and future atmospheric activity. The outdoor sensors are simple to install and will wirelessly transmit data to the base station which interprets and displays the data on the touch screen panel. You can also connect the base station to your PC through USB and upload all recorded weather data for more in-depth analysis.

Now supplied with a solar panel with rechargeable batteries, it can be installed remotely and never worry about battery replacement. The sensors will read indoor/outdoor temperature, wind speed, wind chill, wind direction, dew point, humidity, rainfall and barometric pressure and is solar powered so you don't have to think about batteries. The weather tendency indicator will inform you of changing conditions based on fluctuating barometric pressure and there are programmable alarm modes for all of the recordable weather conditions so you will know if a storm is coming or if winds are too gusty for your Sunday picnic. All minimum and maximum weather values are recorded with the time and date of recording and are stored on the base station for your reference.

Display unit requires 3 x AA batteries.

- Solar powered sensors
- Touch screen LCD panel
- Wind speed / Wind direction / Wind chill
- Dew Point
- Weather forecast tendency arrow
- Weather alarm modes for: temperature, humidity, wind chill, dew point, rainfall, wind speed, air pressure, storm
- Time display hours, mins, date
- 100 year calendar display
- Weather symbols and barometer tendency display
- Perpetual calendar
- LED backlight

Spare part - sold separately

2 x Spare rechargeable alkaline batteries Cat. XC-0343

**SPECIFICATIONS**

	XC-0348
Indoor temperature range	0°C to 50°C +/- 1.0°C
Outdoor temperature range	-40°C to 65°C +/- 1.0°C
Humidity range	10% - 99%
Hygrometer range	1%RH- 99%RH
Rain gauge	0 - 9999mm
Weather history record	Yes
Barometric Pressure	Yes
Frequency	433MHz
Wireless transmission range	50m
Display unit dimensions	230(L) x 145(W) x 35(H)mm
Height of outdoor mast	570mm/with sensors: 630mm

**1
YEAR
WARRANTY**

	Cat.	Qty 1+	Qty 3+	Qty 6+
Wireless with Touch Screen	XC-0348	\$189.00	\$169.95	\$150.95
Spare Battery - Pkt 2	XC-0343	\$9.95	\$8.75	\$7.75

WIRELESS WEATHER STATIONS (CONTINUED)

Professional Wireless Weather Station with 7" Colour LCD & Solar Powered Sensors

A professional grade weather station coupled with a 7" colour LCD that will measure almost anything planet earth can throw at it. It's capable of displaying temperature, wind speed, wind direction, wind chill, barometric pressure, and dew point. You can see how much rain has fallen in 1 hour, a day, a week, or a month, see the current UV index reading, and even see the current lux measurement outdoors which is great for those who have rooftop solar arrays. Install the sensors outside and the readings will be transmitted wirelessly to the base unit up to 100m away.

Minimum and maximum weather values are all recorded along with the corresponding date and time of occurrence. It also features a high/low alarm which will display a visual and give an audible warning when a measurement exceeds or drops below the current record. The threshold for these alarms can be manually configured. The main base is fully solar powered so you need not worry about mains power or constantly adding new batteries. There is a separate indoor sensor that has inbuilt display for temperature, humidity, and barometric pressure.

The interface is beautifully designed and features attractive weather symbols to indicate atmospheric status, everything is clear and easy to read, settings are easily accessible with the buttons on the front of the screen where you can navigate to history, graphs, and setup. The display backlight can be manually turned on/off via the front panel, or automatically at set times so for example it will switch off 8.30pm at night. You can also calibrate values if you happen to notice certain readings are off.

Overall a highly functional weather station brimming with features.

- Time and date display (HH:MM:SS)
- Alarm clock
- Display night switch
- Records of all minimum and maximum values with time/date of recordings
- microSD Card memory



SPECIFICATIONS	XC-0369
Outdoor/indoor temperature	-40°C - 60°C / -40°F - 140°F
Outdoor/indoor humidity	1%- 99%
Wind speed	0-50m/s / 0-100mph -(km/h, knot, mph, bft, ft/s, m/s)
Wind gust	km/h, knot, mph, bft, ft/s, m/s
Wind direction	Degrees, cardinal directions
Wind chill	Yes °C / °F
Dew point	Yes °C / °F
Rain gauge	0-9999mm, inch (Daily, weekly, monthly, yearly)
Rain rate	mm/hr, in/hr
Weather forecast symbols	Sunny, partly cloudy, cloudy, rainy, storm
Barometric pressure	300-1100hPa / 8.85-32.5inHg hpa, in Hg, mm Hg (Absolute, Relative)
UV index	uW/cm2
Solar radiation (lux) meter	0-400k Lux (W/mm2, lux, fc)
Recording interval	1 to 240 mins (tabulated and graphic with zoom)
Wireless sensor range	100m
Mounting hardware	Pole, U bolts, clamps, nuts
Level indicator	Bubble
Display unit dimensions	195(W) x 138(H) x 20(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Pro Wireless Weather Station	XC-0369	\$399.00	\$359.00	\$319.00

Wi-Fi Wireless Station with 7" LCD Display

A professional grade weather station completed with Wi-Fi access. This system is identical to our XC-0369 but with the important ability to upload directly to Wunderground, the most popular crowd-source powered website for enthusiasts in the world. Once this weather station is registered with Wunderground, you will be able to monitor its readings from anywhere using the freely available mobile apps. You will also receive a personalised 14-day Front Door Forecast for the precise location where you place this weather station, and even get alerts via SMS or email. The website also archives all historical data and gives you the access to read them in graphs and charts. With over 100,000 registered devices world wide, this is by far the largest personal weather station network and is rapidly becoming an industry standard.

Apart from the Wi-Fi feature, this weather station will measure almost anything planet earth can throw at it, as you would expect from a system of this calibre. It's capable of displaying temperature, wind speed, wind direction, wind chill, barometric pressure, and dew point. You can see how much rain has fallen in 1 hour, a day, a week, or a month, see the current UV index reading, and even see the current lux measurement outdoors which is great for those who have rooftop solar arrays. Install the sensors outside and the readings will be transmitted wirelessly to the base unit up to 150m away. Minimum and maximum weather values are all recorded along with the corresponding date and time of occurrence. It also features a high/low alarm which will display a visual and give an audible warning when a measurement exceeds or drops below the current record. The threshold for these alarms can be manually configured. The main base is fully solar powered so you need not worry about mains power or constantly adding new batteries. There is a separate indoor sensor that has inbuilt display for temperature, humidity, and barometric pressure.

The interface is beautifully designed and features attractive weather symbols to indicate atmospheric status, everything is clear and easy to read, settings are easily accessible with the buttons on the front of the screen where you can navigate to history, graphs, and setup. The display backlight can be manually turned on/off via the front panel, or automatically at set times so for example it will switch off 8.30pm at night. You can also calibrate values if you happen to notice certain readings are off.

- Wi-Fi Access
- Upload weather data to wunderground.com automatically.
- Alarm clock
- Display night switch
- Includes 38MB built-in memory
- Records of all minimum & maximum values with time/date of recordings
- Recording interval: 1 to 240 mins (tabulated and graphic with zoom)
- Up to 100m line of sight wireless transmission range
- Uses microSD Card memory (not included) for backup (can accept any capacity microSD card)



SPECIFICATIONS	XC-0422
Outdoor/indoor temperature	-40°C - 60°C / -40°F - 140°F
Outdoor/indoor humidity	1%- 99%
Wind speed	0-50m/s / 0-100mph -(km/h, knot, mph, bft, ft/s, m/s)
Wind gust	km/h, knot, mph, bft, ft/s, m/s
Wind direction	Degrees, cardinal directions
Wind chill	Yes °C / °F
Dew point	Yes °C / °F
Rain gauge	0-9999mm, inch (Daily, weekly, monthly, yearly)
Rain rate	mm/hr, in/hr
Weather forecast symbols	Sunny, partly cloudy, cloudy, rainy, storm
Barometric pressure	300-1100hPa / 8.85-32.5inHg hpa, in Hg, mm Hg (Absolute, Relative)
UV index	uW/cm2
Solar radiation (lux) meter	0-400k Lux (W/mm2, lux, fc)
Time and date display (HH:MM:SS)	
Mounting hardware	Pole, U bolts, clamps, nuts
Level indicator	Bubble
Display unit dimensions	195(W) x 138(H) x 20(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Wi-Fi Wireless Station with 7" LCD Display	XC-0422	\$499.00	\$449.00	\$399.00

ENVIRONMENT MONITORS

Hand-held Anemometer with Tripod Stand

Measure wind speed in km/h, mph, ft/min, meters/sec or knots for your outdoor activity. It also indicates wind-chill, air temperature, comfort level & displays current, max & average wind speed. There is also a beaufort scale bar graph for a quick indication on the wind condition. Supplied with lanyard & tripod.

- Windspeed range: 0.3m/s to 30m/s
- LED backlit display
- Celsius and Fahrenheit selectable
- Temperature range: -29.9 to +59°C
- Temperature resolution: 0.1°C
- Comfort levels: Comfort, Cool, Cold, Extreme & Danger
- 3V button cell battery (CR2032) included
- Low battery detection and display
- Battery life: Approx 12 months
- Dimensions: 140(H) x 50(W) x 18(D)mm less stand



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Anemometer	QM-1644	\$69.95	\$62.95	\$55.95

Ultrasonic Water Tank Level Meter with Thermo Sensor

Keep an eye on your outdoor water tank from the comfort of your own living room, up to 100m away. Installed at the top of your water tank, the transmitter unit measures the water level and temperature using an ultrasonic sensor. You can hang the receiver unit on a wall (hooks) or pull out the stand and place it on your kitchen bench top, table or desk. View your room's temperature, tank temperature and water level (represented by a 10 element bar graph). You can store min/max records and set alarms for specific water levels (high/low) or when empty.

- Transmission range up to 100m
- Time display (12/24hr) / Time alarm mode
- Calendar display
- Indoor temp. display / Tank temp display
- Tank level display (metre/feet)
- Water level displayed on a 10 element bar graph
- Min. & Max. records for indoor & tank temp.
- Tank level alarm mode (high/low)
- Tank empty alert
- Low battery indicator
- Tank level updated every 30 seconds or 3 mins
- Wall mount, Free standing
- Battery power: receiver 2 x AA 1.5V (not included), outdoor transmitter: 6 x AAA 1.5V (not included)
- Dimensions: Receiver: 106(L) x 97(W) x 24(D)mm
- Sensor (into tank): approx 47(Dia.)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Water Tank Level Meter	XC-0331	\$79.95	\$71.95	\$63.95

USB Temperature & Humidity Data Logger

An easy to use temperature and humidity data logger with USB interface. The logger is water resistant so it can be used indoors or outdoors. Big buttons with LCD display to easily change your settings. Stores up to 20,736 readings, and there is capacity gauge to monitor memory usage. Once connected to a computer via USB, the supplied software can read the logged data and export in graphs or CSV files.

- 20,736 readings capacity
- Logging interval from 8 seconds to 4 hours

SPECIFICATIONS	XC-0424
Temperature range	-40°C to 60°C
Humidity range	0%RH - 99%RH
Power	1 x 3V CR2032
Battery life	12 months
Dimensions	87(L) x 60(W) x 19(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-0424	\$49.95	\$44.90	\$39.90

FIND OUT MORE IN STORE

Our staff offer friendly and helpful service.

Wind Speed Anemometer/Thermometer

This unit is a more sophisticated version of our QM-1644 Anemometer. Firstly, it is capable of measuring wind/airflow parameters at the same time as monitoring temperature.

- Metres/sec; km/hr; feet/min; miles-per-hour; knots
- Cubic metres/minute; cubic feet/minute
- Air temp, 0-50°C (0.1°C resolution)
- Auto power off
- Vane impeller ball bearing mounted
- 1m vane probe lead



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Anemometer	QM-1646	\$129.00	\$115.95	\$102.95

Digital Rain Gauge with Temperature

This Digital Rain Gauge with Temperature has a wireless self-emptying rain collector for measuring rain fall and temperature. The wireless rain collector sensor transmits data by using a low power radio frequency to the display main unit that can be located up to 150m away (line of sight). The display unit stores the data over a time range to allow you to monitor and analyse the weather status for past 24 hours. It has advance features such as the HI/LO Alert alarm to alert you while the set high or low weather criteria are met. It allows you to analyse hourly, daily, weekly, monthly and yearly rain fall records. With radio-controlled / atomic clock feature built-in, the system is truly a remarkable personal but professional rain gauge for your own backyard.

- Large backlit LCD display unit
- Total Hourly, Daily, Weekly, Monthly and Yearly rainfall display
- Data logger stores and gathered data to display rainfall
- Graphical histogram display shows variation of rainfall pattern
- SINCE function to display TOTAL rainfall from a date
- Measures temperature
- Real time clock display with Atomic Radio Controlled function
- 150m sensor transmission range
- High / Low Alert function
- Alarm function with ice-alert function



SPECIFICATIONS	XC-0430
Battery	2 x AA size 1.5V batteries (not included)
Support channels	wireless sensor (Rain gauge, thermo sensor)
Dimensions	155(H) x 95(W) x 23(D)mm
Weight	212g



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Rain Gauge	XC-0430	\$89.95	\$80.95	\$71.95



SHOW US YOUR BUILD COMPETITION

Zach, who shops at our Jaycar Newmarket store built:

My wildly-productive desk where I'm using my Duinotech Uno and components to solder the circuit for a device that will measure the water-level of my house's rainwater-tank and transmit it to a monitor in my room.

DESKTOP THERMOMETERS & CLOCKS

Indoor Desk Thermometer

Handy desk or table-top thermometer. Measures degrees Celsius with hi and low memory. Tilting bail for standing on desk purposes.

- Battery included.



SPECIFICATIONS	QM-7316
Range	-20 - 50°C
Dimensions	64(W) x 72(H) x 18(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Indoor Version	QM-7316	\$5.95	\$5.50	\$4.75

Wireless In & Out LCD Thermometer

Keep an eye on the outdoor and indoor temperature with ease. This thermometer is comprised of two parts. An LCD display/receiver to keep inside and a wireless outdoor temperature sensor which transmits the outdoor temperature back to the display. Great for monitoring computer server rooms, wine cellars, effectiveness of housing insulation, or for simply wanting to know the differentiation in temperature.

- No need to expose the LCD to the elements.



SPECIFICATIONS	XC-0321
Indoor temperature range	0°C to 60°C
Outdoor temperature range	-40°C to 60°C
Display unit requires	2 x AAA batteries
Remote requires	2 x AAA batteries
Transmission frequency	433.92MHz
Receiver dimensions	86(H) x 57(W) x 18(D)mm
Sensor dimensions	68(H) x 50(W) x 21(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Thermometer	XC-0321	\$19.95	\$17.95	\$15.95

Jumbo Display In/Out Thermometer

One display that shows both the inside and outside temperatures simultaneously. It will also record the minimum and maximum temperatures. The outside temperature sensor is waterproof and is on a 3 metre cable. It also has a tilting bail for standing as well as a keyhole for wall mounting. Jumbo digits for the optically challenged.



SPECIFICATIONS	QM-7310
Temperature range	-39.9°C to 49.9°C -39.8°F to 122°F
Battery	Requires AA
Dimensions	95(W) x 140(H) x 22(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Jumbo Display	QM-7310	\$19.95	\$17.95	\$15.95

Jumbo Display Thermometer/Hygrometer

Displays the temperature and humidity together on the one huge LCD display. It also has a min / max function (memory).

- Switch between C° and F°.
- Requires AAA battery



SPECIFICATIONS	QM-7312
Temperature	-10° - 60°C (14° - 140°F)
Humidity	10 - 99% +/-5%
Accuracy	+/-1°C, +/-1.8°F
Dimensions	110(H) x 100(W) x 22(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Jumbo Display	QM-7312	\$24.95	\$22.45	\$19.95

Wireless In & Out Thermometer/Hygrometer

An advanced thermometer/hygrometer capable of measuring indoor and outdoor temperature, as well as relative humidity. The large easy to read LCD acts as a receiver unit for a separate outdoor sensor unit. It will record max and minimum temperatures for quick referral and conveniently displays the time of day.

Ideal for temperature or humidity sensitive environments such as museums, greenhouses, or to check if your home and office is too dry or moisture laden.

The LCD receiver unit is capable of receiving information from up to 3 sensor units, which are available separately (see Cat. XC-0324).



SPECIFICATIONS	XC-0322
Indoor temperature range	0 +60°C
Remote temperature range	-45 +65°C
Humidity range	1% to 99%
Transmission frequency	433.92MHz
Transmission range	Up to 100m open air
Power requirements (receiver)	2 x AA alkaline batteries (not included)
Power requirement (remote)	2 x AAA alkaline batteries (not included)
Receiver dimensions	95(H) x 114(W) x 25(D)mm
Sensor dimensions	51(H) x 63(W) x 25(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Thermometer/Hygrometer	XC-0322	\$34.95	\$31.45	\$27.95
Extra Sensor	XC-0324	\$16.95	\$15.25	\$13.55

FRIDGE THERMOMETERS

Digital Fridge/Freezer LCD Mini Thermometer

See at a glance that your favourite food or beverage is at the correct temperature in the fridge or freezer. Hang it from a wire shelf, stand on a shelf or attach to a metal surface with the built-in magnet.

- Stylish design with white face and silver colour surround.
- Selectable °C / °F



SPECIFICATIONS	QM-6323
Temperature range	-19°C to 49°C
Digit height	23mm
Batteries	1 x CR2025 included
Dimensions	68(L) x 44(H) x 12(D)mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Mini Thermometer	QM-6323	\$9.95	\$8.75	\$7.75

Digital Thermometer for Fridge or Freezer

Keep your fridge at the right temperature all year round. Simply attach the sensor to the desired position in the fridge or freezer and the thermometer on the outside with the attached magnets or enclosed hook and loop strip. Set your preferred reading of °C or °F and then set the minimum and maximum temperatures with the alarm. If the fridge goes below or above these set temperatures the alarm will sound until you manually turn it off to investigate the problem.

- No more spoiled food ever again.
- Shows room temperature at the touch of a button as well



SPECIFICATIONS	QM-7209
Room temp range	-10 to 50°C
Fridge temp range	-50 to 70°C
Display size	26(W) x 13(H)mm
Fridge sensor cord	1m
Requires	1 x AAA battery (supplied)
Dimensions	67(W) x 39(H) x 15(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Thermometer with Alarm	QM-7209	\$24.95	\$22.45	\$19.95

DISCOUNT TRADE CARD



If you regularly purchase electrical or electronic goods to be used for business purposes you may qualify for a Jaycar Electronics Trade Card which entitles you to

substantial discounts on most Jaycar products. Discounts range from 5% to 30% depending on the type and quantity of product purchased. Excludes Kits & Books.

*ABN will be required - see our website or Store Manager for further details.

CLOCKS

LCD Touch Screen Countdown Timer

An easy-to-use countdown timer for the kitchen, home gym, study, etc. Features a backlit touchscreen, fold-out stand for sitting on a desk or magnets for attaching to a metal surface like a fridge. It has a stylish appearance and the numbers scroll downward with every second and minute, making it mesmerising to watch. At the touch of a button it can be turned into a stopwatch count-up timer.

- Touch screen with white LED backlit display
- Countdown range: 99 minutes and 59 seconds
- 2 x AAA batteries required
- Dimensions: 80(H) x 80(W) x 25(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Countdown Timer	QM-6325	\$14.95	\$13.45	\$11.95

Travel World Time Alarm Clock with LED Torch

With the twist of a knob this clock will automatically update the time zone to one of 18 time zones. A bright screen displays current time, time zone, full date, and current temperature. It also features an alarm clock. On the other end is a 3 LED torch! Ideal for any world traveller!

- Time Zones: Honolulu, Los Angeles, Denver, Chicago, New York, Rio De Janeiro, London, Paris, Cairo, Athens, Moscow, Dubai, India, Bangkok, Hong Kong, Tokyo, Sydney, and Wellington.
- Batteries: Requires 2 x AAA Batteries
- Torch: 3 x AG13 Button Batteries (included)
- Dimensions: 132(W) x 39(H) x 38(D)mm
- LCD Dimensions: 41(W) x 20(H)mm



NEW
2017

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Alarm Clock Torch	XC-0103	\$19.95	\$17.95	\$15.95

LCD Clock with Thermometer

Slimline LCD clock that displays both the time and temperature simultaneously on a large, easy to read display. Stylish design with white face & silver coloured surround.

- Desk or wall mount
- 12/24 hour selectable
- °C / °F selectable
- Digit height: 35mm
- Temperature range: 0°C - 50°C
- Requires 2 x AAA batteries
- Dimensions: 215(L) x 73(H) x 22(D)mm



1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Clock with Temp	XC-0230	\$24.95	\$22.45	\$19.95

PRODUCT DATA

We now have so much data and fact sheets we cannot fit it all here! Check our website for over 3,500 pages of data!

KITCHEN SCALES

5kg Scales with Countdown Timer

An elegant kitchen scale with a large LCD screen display and TARE feature that allows you to weigh items without emptying the bowl. Features a UNIT key to convert the result between oz, g, and lbs, and a built-in countdown kitchen timer with alarm modes. The scale is finished in white and has a glass plate, which allows you to weigh both liquid and dry items either directly on the weighing platform or using a container.

SPECIFICATIONS	QM-7288
Capacity	5000g
Units	g/lb:oz
Resolution	1g/0.1oz
Batteries	Requires 2 x AAA batteries
Dimensions	220(L) x 165(W) x 10(H)mm



1
YEAR
WARRANTY

▲	Cat.	Qty 1+
5kg Scale	QM-7288	\$27.95



See page 192 for other weighing scales

Large Red LED Display Alarm Clock

This fashionable and compact alarm clock has a bright 45mm (1.8 inch) red LED display that is clearly visible from anywhere in your room. The alarm begins gently and gradually ascends louder to wake you up. All the standard functions you find on an alarm clock, including an extra large snooze bar on top. Features an adjustable display brightness and high or low alarm loudness setting. Mains powered with a 1.6m lead.



- 45mm (1.8") high LED display
- High and low alarms
- High and low dimmer display
- Mains powered
- Dimensions: 198(W) x 83(D) x 60(H)mm

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Large LED Display	AR-1800	\$37.95	\$33.95	\$30.45

LCD Alarm Clock with Temperature & Calendar

With clearly visible size and stylish designs these LCD alarm clocks are ideal for your home or office workspaces. With several handy features they relay the time, date and temperature. Displays hour, minute, second, month, date and day.

- LCD Screen: 192mm
- Digits Height: 60mm
- Thermometer measuring in °C or °F
- Humidity measurement by percentage
- Built in stand
- Batteries Required: 2 x AA
- Dimensions: 280(L) x 190(H) x 25(W)



280mm

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Large 192mm	XC-0221	\$54.95	\$49.45	\$43.95

LED Clock Radio with Night Light & Bluetooth® Technology

Wake up on time everyday to your favourite music with this LED radio clock alarm. Fashionable appearance and all the usual features you expect to find on an alarm clock, including sleep and snooze functions. What makes this clock different is the built-in night light and Bluetooth technology so you can stream music from your phone instead of using the built-in AM/FM radio. Also has a USB socket to charge your Smartphone and tablet. Supplied with a mains power adaptor.

- Stereo (2 x 2WRMS output power)
- Bluetooth® audio streaming
- 30mm (1.2") high LED display
- Night light bar on top panel
- PLL FM radio with 20 memory pre-sets
- Dual Alarm setting
- High/Low dimmer
- Wake to radio or buzzer
- Snooze, sleep function
- 3V battery backup (Requires 2 x AA batteries)
- Dimensions: 201(L) x 111(D) x 80(H)mm

Bluetooth®



Limited Stock

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Clock with Radio	AR-1804	\$59.95	\$53.95	\$47.90

Wireless 5kg Scales with Clock & Thermometer

Not your average kitchen scale. This digital kitchen scale comes with a wireless display that you can sit elsewhere on the bench, attach to the fridge or mount on the wall at eye level. Read the weight at a quick glance instead of looking under the large mixing bowl obscuring the display or fumbling for your reading glasses. It also features a thermometer and a clock so the time and room temperature can be displayed when the scale is not in use. The scale has a durable white piano finish with glass surface that is easy to clean. The wireless display has a built-in magnet, a kickstand for wall or bench mounting and a slot to mount to a wall screw.



NEW
LOW
PRICE

SPECIFICATIONS	QM-7289
Load capacity	Max. 5kg
Resolution	1g
Requires	2 x AAA for scales and 3 x AAA for the display
Dimensions scales	220(L) x 165(W) x 19(H)mm
Dimensions display	103(L) x 82(W) x 25(D)mm

▲	Cat.	Qty 1+
5kg Scales	QM-7289	\$39.95

1
YEAR
WARRANTY

OFFICE GADGETS

Pen Style RF Presenter with Laser Pointer

For professionals such as teachers and lecturers who frequently use PowerPoint presentations but don't want to be tied to their computer. You can cycle back and forward through slides, blank the screen (PowerPoint only), or use the units laser to highlight key points in presentations. Hassle free plug and play, no need for fiddling with installation. The USB receiver is integrated into the pen unit for easy transportation and usage. The receiver unit can also be used as an MicroSD card reader.

- Compatible with Windows and Mac®
- Control distance: Up to 10m
- Laser distance: Up to 200m
- Laser wavelength: 650nm (Red)
- Battery: Requires 1 x AAA (included)
- Dimensions: 133(H) x 22(W) x 17(Dia)mm



This laser pointer has passed Aust. Standards for laser pointers. AS/NZS 2211.1:2004.

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5410	\$34.95	\$31.45	\$27.90



Plug-in Laser Pointer for iPod®/iPhone® with App

Simply plug this nifty device into the headphone socket on an iPhone®, iPod®, or even iPad® and it becomes a convenient laser pointer. A great tool for teachers, lecturers, or for use in business presentations. The free iOS app allows you to flash the laser at certain intervals or adjust the brightness. It also double as a stylus for finer control of your touchscreen.



This laser pointer has passed Aust. Standards for laser pointers. AS/NZS 2211.1:2004.

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-5412	\$14.95	\$13.45	\$11.95



Keyring Laser Pointer

This laser keyring pointer is chrome plated, and has a keychain attached. Requires 3 x LR44 batteries, which are supplied.

- Very small, only 70mm long x 13mm dia
- Wavelength 670nm / Max output < 1mW
- Do not stare into beam



This laser pointer has passed Aust. Standards for laser pointers. AS/NZS 2211.1:1997.

▲	Cat.	Qty 1+	Qty 5+	Qty 10+
	ST-3102	\$14.95	\$13.45	\$11.95



Scientific Calculator

50 button scientific calculator that performs 240 functions. Includes a slide off cover to protect it while on the go.

- Two line display
- 10+2 digits
- Auto reply
- 240 functions
- Requires 2 x AA batteries
- Dimensions: 161(H) x 84(W) x 25(D)mm



Note: Product may vary slightly to one shown

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	QM-7277	\$9.95	\$8.95	\$7.95

LED Desk Lamp With Clamp

Fantastically stylish with touch-sensing brightness control. It's rechargeable and will run for up to 12hrs depending on the brightness setting. The gooseneck allows you to position it just where you want, and the desk clamp keeps it firmly in place. Ultra bright, white COB LED for daylight white light. The LED head also features rubberised ABS for durability. So delightful it suits the workbench, bedside table, or study area all very well.

- 3 Level Adjustable Brightness
- Flexible Stand
- Touch Sensor Switch

SPECIFICATIONS	SL-3145
Max Brightness	120 Lumens
Battery	Polymer Lithium Battery 500mAh
Burn Time	Up to 12hrs
Recharge Time	5hrs
Weight	130g
Dimensions	115(L) x 55(W) x 380(H)mm
Material	ABS, Rubber
3 Level Brightness	100%, 70%, 30%



▲ Lumens	Cat.	Qty 1+	Qty 3+	Qty 6+
120	SL-3145	\$14.95	\$13.45	\$11.95

2GB Digital Voice Recorder

A simple one key to record digital voice recorder with 2GB of inbuilt memory capable of recording up to 540 hours of audio. It features three recording modes; high quality (HQ), standard quality (SP) and long play (LP). Files can be played back or deleted on the device with ease and features voice-activated recording which is great for use in lecture theatres or presentations. Includes USB cable and earphones.

SPECIFICATIONS	XC-0387
Memory	2GB Internal
Recording Modes	HQ, SP, LP
Recording Format	MP3 (HQ & LP), WAV (SP)
Recording Time	34hrs HQ / 134hrs SP / 540hrs LP
Battery	Requires 2 x AAA
Battery Life	Up to 27hrs HQ, 41hrs SP, 41hrs LP
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.0+
Dimensions	102(H) x 30(W) x 17(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-0387	\$69.95	\$62.95	\$55.95

4GB Digital Voice Recorder

A sleek and intuitive rechargeable voice recorder with touch button display and a generous 4GB of memory. Quick one-key recording means you won't miss an important part of a speech or radio broadcast. It features two recording modes; pulse-code modulation (PCM) and high quality (HQ) for capturing up to 69 hours of high quality audio. You can also set it to VOR (voice operated recording) and let the device record whatever it hears. A solid voice recorder ideal for students, journalists, musicians, private investigators, and business people. Includes earphones, tie clasp microphone and USB cable.

SPECIFICATIONS	XC-0389
Memory	4GB Internal
Recording Modes	PCM, HQ
Recording Format	WAV (PCM), MP3 (HQ)
Recording Time	12hrs PCM / 69hrs HQ
Battery	3.7V, 350mAh Li-ion rechargeable battery
Battery Life	Up to 17hrs PCM, 15hrs HQ
Recharge Time	Up to 3hrs
Compatibility	Windows 10, 8.1, 8, 7, Vista, XP, 2000, Mac OS X® 10.0+
Dimensions	100(H) x 36(W) x 9(D)mm



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	XC-0389	\$99.95	\$89.95	\$79.95

Microphone for Smartphones

Turns your Smartphone or Tablet into a powerful audio recorder. The microphone allows you to record up to 12dB louder compared to the device's built-in microphone, making it ideal for recording lectures, interviews, voice memos and so on. The device is compatible with almost all Apple®, Android® and Blackberry® devices. Simply plug this efficient metallic microphone into your mobile device and enjoy an easy real-time audio recording experience.

SPECIFICATIONS	AM-2050
Type	9.9mm Black Electret diaphragm capsule condenser microphone
Polar Pattern	Cardioid
Sensitivity	-45dB +/- 2dB, 0dB=1V/Pa (1kHz @ 1Pa)
Frequency response	20Hz - 20kHz
Dimensions	70(L) x 12(Dia.)mm, 15g



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
	AM-2050	\$39.95	\$35.95	\$31.95

Adjustable Colour Temperature LED Lamp with LCD Clock

This is no ordinary LED lamp. At the touch of a button on the base, choose between cool white, warm white and natural colour temperatures, and adjust the brightness. It also has an LCD screen located on the arm of the lamp that displays the date, time, and temperature. The light features advanced luminous technology, so there is no glare or stroboscope, and to top it off, the position of lamp head and arm are adjustable. Supplied with a mains power adaptor.

- 3 light modes, warm white, cold white and natural
- 14 x LED lights
- Touch sensitive switches for easy operation
- LCD display with calendar, alarm clock, snooze and thermometer functions
- CR2032 button cell included

SPECIFICATIONS	SL-3142
Power	5V 800mA
LED lifetime	40,000 hours
Dimensions	330(H) x 145(L) x 145(W)mm, 690g



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	SL-3142	\$69.95	\$62.95	\$55.95

TIME LAPSE CAMERAS

Time Lapse HD Video Camera with LCD Viewfinder

Create amazing time lapse videos in high definition with this clever time lapse camera.

It captures images at a preset intervals between 1 second to 24 hours and creates an AVI video file that you can playback later.

Setup and operation is easy; simply use the LCD viewfinder and 120 degree rotatable lens to frame your subject, set the time interval, and start capturing. The video on the included 2GB SD card can be played back on a computer, media player, suitable TV or digital photo frame. The supplied 4 x AA batteries can capture 300,000 frames.

It can also be powered from the USB port of a computer (USB cable required).

Use the QC-8033 remote control to create stop motion footage

SPECIFICATIONS	QC-8034
Video format	AVI
Resolution	1280 x 720, 640 x 480
Field of view	59 degrees
Focal length	36mm (35mm equivalent)
Focus distance	75cm (Minimum)
Time Interval	from 1 second to 24 hours
Memory storage	SD Card (Supports up to 32GB)
LCD Screen	1.44" Colour TFT
POWER SOURCE	
Battery	4 x AA included
DC	5VDC (Micro USB connector)
Dimensions	106(H) x 64(W) x 46(D)mm
Weight	120g

OPTIONAL ACCESSORIES



QC-8033 QC-8035 QC-8037

Note: Accessories not stocked at all stores - call ahead first

	Cat.	Qty 1+	Qty 2+	Qty 4+
Time Lapse Camera & Recorder	QC-8034	\$299.00	\$269.00	\$249.00
Motion Sensor PIR to Suit	QC-8035	\$89.95	\$80.95	\$74.95
Waterproof Housing to Suit	QC-8037	\$109.00	\$97.95	\$92.45
Shutter Cord Switch to Suit	QC-8033	\$14.95		

HDR Time Lapse Professional Video Recorder

Easily create stunning time lapse videos with the push of a button. This model features an advanced HDR image sensor so it is able to capture excellent videos in harsh light without washing out the image. It will also capture very well in darkness. The HDR sensor creates a richness in the image quality that traditional digital sensors can't. There is a 1.44" LCD viewfinder so you can setup the perfect angle and set it to record. The included lens is CS mount, so it can be interchanged with virtually any other CS mount lens but results may vary.

- A 4GB SD card is included which can capture up to 30,000 images.
- Still images can be taken with the use of an additional accessory (QC-8033)

Note: Different CS mount lenses may produce varying results

SPECIFICATIONS	QC-8038
CAMERA	
LCD Screen	1.44" TFT LCD
Lens Rotating Angle	120°
Capture mode	
Time lapse	Auto generation of time lapse video
IMAGE SENSOR	
Type	1/3" HDR sensor
Dynamic range	115dB
Resolution	1.3 Mega pixel
Sensitivity	3650mV/lux-sec
OPTICAL LENS (BCS 019)	
Type	CS Mount (Aspherical Glass Lens)
Aperture	F 2.0
Field of view	112°
Focal length	19mm (35mm equivalent)
Focus distance	Manual focus from 1cm to infinity
SHOOTING SETTINGS	
Scenes	Daylight, twilight, night, moon
White balance	Auto, day, shade, cloudy, fluorescent light (cool) fluorescent light (warm), tungsten light
Custom image	Exposure, saturation, contrast, sharpness



STOP MOTION
SHUTTER LINE
QC-8033

RECORDING	QC-8038
Video format	AVI MJPG (Motion JPG)
Resolution	1280 x 720
Still image format	1280 x 720 JPG (only when using with shutter line available separately QC-8033)
Memory storage	SD Card (4GB SD Card included, supports up to 32GB)
POWER SOURCE	
Battery	4 x AA (included)
DC	5VDC (Micro USB connector)
Dimensions	105(H) x 64(W) x 45(D) mm
Weight	120g

	Cat.	Qty 1+	Qty 2+	Qty 4+
Time Lapse Camera & Recorder	QC-8038	\$499.00	\$449.00	\$419.00
Stop Motion Shutter Line	QC-8033	\$14.95		

RELATED PRODUCTS

FROM
\$6.95
SB-2902



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FROM
\$12.95
XC-4983



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FROM
\$19.95
XC-4926



CARD READER P402

FROM
\$349
GG-2129



NIGHT VISION SCOPE P493

BATHROOM GADGETS

Mini Electric Wet & Dry Shaver

Ideal for campers and mariners who need a quick way to keep their beard under control. Easy to clean and maintain, and only runs on 2 x AAA batteries (not included). It's waterproof and dustproof with a double blade design for a comfortable smooth shave.

• Dimensions: 40(W) x 78(H) x 14(D)mm *Limited Stock*



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1521	\$9.95	\$8.95	\$7.95

Men's 3-In-1 Wet/Dry Groomer

Trim your beard, moustache, sideburns, nose, ear or other facial hair. Cordless and waterproof, the nozzle can be rinsed after use. Three attachments are included - a long hair trimmer, beard/moustache and nose/ear hair trimmers. Runs on a single AA battery.

- 3 interchangeable heads
- Waterproof and hygienic
- 125mm long



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1519	\$19.95	\$17.95	\$15.95

Waterproof Shower Speaker with Bluetooth® Technology

This waterproof shower speaker brings your favourite music to your bathroom. Listen to music wirelessly from your Bluetooth enabled Smartphone or laptop, and take calls wirelessly at the touch of a button. The device comes with a suction cap that allows you to stick it to any flat surface, and is powered by a built-in battery that can be charged with the supplied USB cable.

SPECIFICATIONS	XC-5630
Maximum Range	10m
Charging Time	3 hours
Operating Time	5 hours
Dimensions	93(L) x 85(H) x 45(D)mm, 99g



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-5630	\$27.95	\$25.15	\$22.35

ELECTRIC CANDLES

LED Tealight Candle - Set of 12

Conventional candles are potentially hazardous in the family home. Today's technology has allowed us to experience a safe and convenient tealight without the smoke or messy wax. Battery operated & simple to use, these lights flicker just like real candles. Ideal for any table, shelves, bedrooms, bathrooms or patios.

- Comes in a set of 12 individual candles
- Batteries included
- Long life LED



▲	Cat.	Qty 1+	Qty 3+
	ST-3921	\$9.95	\$8.95

Vanilla Scented Flickering LED Candle

Looks just like a real candle with moving flame.

- 120mm high.
- Battery included.



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	ST-3919	\$19.95	\$17.95	\$15.95

NERD PERKS REWARDS CARD

Earn a point for every dollar spent at any Jaycar company owned store* & be rewarded with a \$25 Jaycoins Card once you reach 500 points!

Sign-up in-store or online.

*Conditions apply. See front of catalogue for details



Rechargeable Mens Grooming Kit with Dock

This high quality hair trimmer combines a sleek modern look with high quality precision design and performance. The ergonomically shaped trimmer has an attractive mirrored finish and sits in a sleek charging base that plugs into a power point or hotel shaving outlet. It can be powered two ways - either charge it in its base and use it as a cordless hand held trimmer or plug the power cord straight into the trimmer if you haven't had time to charge it. The high-precision blades are made from a special metal compound for precision cutting and long life use and will never rust. It's designed specifically for low vibration and low noise. Perfect for home use, suitable for kids and adults alike. The trimmer includes three comb attachments - 3mm 6mm 9mm, to ensure you are able to trim to the length you want. Exquisitely packaged, it also makes for a perfect, high quality gift.

Contents:

- 1 x Mirrored finish trimmer
- 1 x Sleek designed charging base
- 3 x Combs
- 1 x Cleaning Brush
- 1 x Blade oil
- 1 x Power Adaptor



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1523	\$24.95	\$22.45	\$19.95

Dual Sided Magnifying Mirror

Never have trouble putting in those contacts or applying your make-up again. This dual sided mirror has one mirror at 1 x magnification and the other at 5 x magnification. The frame is rimmed with a LED light making it ideal to use at night or in poor light conditions.

- Mirror dimensions: 110(Dia.)mm
- Mirror and frame dimensions: 150(Dia.)mm
- Requires 3 x AA batteries (use SB-2425)
- Dimensions: 180(L) x 110(W) x 200(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1067	\$29.95	\$26.90	\$23.70

3 Piece Flameless LED Candle Set

Who needs conventional candles, when you can experience the safe and convenient LED light technology with this 3 piece Flameless LED Candle set. Featuring a soft yellow glow that flickers just like a conventional candle would. This is also made from real wax in which is nearly indistinguishable from a flamed candles. The candle sets also comes with a remote control to switch them on or off from a distance. This will make a nice set for the lounge room, dining table or even the bedroom.

- 3 Piece LED candles
- Infrared Remote
- Flameless Technology
- 9 x AAA batteries required



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	ST-3927	\$29.95	\$26.95	\$23.70

SHOW US YOUR BUILD COMPETITION

Adam, who shops at our Jaycar Thomastown store built:



This solar-powered letterbox has a Jaycar 10W solar panel in the roof, connected to a solar controller that turns LED strips on after sunset. 18Ah of SLA batteries sit on an internal shelf. A reed switch attached to the letter flap activates a wireless doorbell inside the house when mail arrives.

HEALTH & FITNESS

Sports Stopwatch

This handy 1/100th of a second sports timer will be a useful addition to any sports bag. Not only does it measure elapsed time for up to 24hrs, our water resistant stopwatch has a split time (Lap) function as well as alarm and calendar functions.

- Dimensions: 55(W) x 65(H) x 15(D)mm
- Includes 600mm lanyard



Thousands Sold

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Stopwatch	XC-0270	\$12.95	\$11.35	\$10.35

USB Rechargeable Bluetooth® Pedometer with App

This tiny pedometer syncs with your Smartphone via Bluetooth® and sends live data as you exercise so you can measure how far you've walked or run in km, how many steps taken, exercise duration and calories burned. This can all be viewed on weekly graphs so you can review your achievements. If the pedometer and phone are not synced, it will record data anyway and upload to your phone when you re-sync.

- The pedometer is recharged via USB
- Free iOS App available
- Dimensions: 38(L) x 30(W) x 9(H)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Pedometer	XC-0390	\$14.95	\$13.45	\$11.95

Bluetooth® Body Weight Scales with App

With this Bluetooth® digital body scale, you can now monitor and track your fitness by recording your weight and Body Mass Index (BMI) on your personal Smartphone or Tablet. Download the free app available for iOS or Android (search iWellness) and you will be able to see the state and progress of your body in user friendly charts and graphs, you can even set targets and share your achievements on social media and get cheered on by your friends and family.

- Large 4.3 inches backlit LCD
- Smart power saving
- Supports iOS & Android (search iWellness)
- Easy to record weight and retrieve historical data
- Sharing on social media
- Supports multiple users



SPECIFICATIONS	QM-7268
Weight Limits	5 to 180kg
Power Supply	4 x AA batteries included
Dimensions	325(L) x 325(W) x 29(H)mm

▲	Cat.	Qty 1+
Digital Body Scales	QM-7268	\$49.95

Non Contact Body Thermometer with Smartphone App

A fantastic solution for parents - a thermometer to read your child's temperature instantly! No need to wait up to five minutes with a thermometer in your child's mouth for an accurate result, this non-contact thermometer uses infrared radiation to instantly and accurately measure both body temperature and surface temperature. Use it to ensure you heat up your child's food to an acceptable temperature using the surface temperature mode, and then use the body temperature mode to check if your child is running a fever. It's so effective in fact, that the United States FDA has given their stamp of approval on it! If all that wasn't enough, there is even the ability to link the unit to your iPhone® or Android® Smartphone, and using a free App you can track your child's temperature over time (and more!), or even use it as a guide for planning pregnancy. See our website for info on the app.

SPECIFICATIONS	QM-7201
Temperature range	0-50°C (32°F - 122°F)
Accuracy	±0.3°C
Response time	0.5 sec
Power off	Automatic
Measuring distance	50-150mm
Dimensions	145(L) x 57(W) x 35(D)mm



▲	Cat.	Qty 1+
Body Thermometer	QM-7201	\$49.95

Bluetooth® Heart Rate Monitor with App

Monitors your heart rate to ensure you are optimising your exercise, and also records your exercise duration, distance, speed and calories burned. Simply place the comfortable textile strap around your chest and it will wirelessly transmit heart rate information to a Bluetooth® enabled Smartphone or Tablet using a free app called Endomondo Sports Tracker. This app is available on Google Play® and the Appstore®.

Features of Endomondo app:

- Track your heart rate
- Track any outdoor sport including duration, distance, speed and calories
- Enter a workout manually, e.g., a treadmill run or weight training
- Get audio feedback for every mile or km while exercising
- See your route on a map
- Easy to change battery hatch



SPECIFICATIONS	XC-0392
Battery life	32 months (using 1 hour a day)
Pulse rate range	30 - 239bpm
Compatibility	iPhone® 4s/5, New iPad®, iPad® 4, iPad® mini, iPod® touch 5
Buckle dimensions	64(L) x 40(W) x 12.9(D)mm
Textile strap dimensions	880(L) x 30(W)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Heart Rate Monitor	XC-0392	\$39.95	\$35.95	\$31.95

ALCOHOL BREATH TESTERS

Alcohol Breath Tester with LCD

Check your blood alcohol content with this affordable pocket alcohol breath tester before getting behind the wheel. Easy one button operation; simply blow in the nozzle and within seconds it will display the reading on its backlight LCD. There is a compartment on the back of the unit to store up to 5 plastic nozzles. A small investment to ensure you retain your driving privileges and prevent potential accidents.

- Three kinds of unit conversion (%BAC / BAC /mg/L)
- Audible alert when measurement over preset level
- Supplied with 10 mouthpieces - replacements available separately

SPECIFICATIONS	QM-7304
Detection Range	0.000 - 0.199% BAC
Accuracy	±0.010% BAC
Display	Digital LCD
Warm-up Time	<20s
Response Time	<5s
Power	Requires 3 x AAA batteries
Weight	68.5g (excluding batteries)
Dimensions	120(L) x 61(W) x 29(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Alcohol Breath Tester	QM-7304	\$54.95	\$49.45	\$43.95
Spare Mouth Pieces - Pack of 10	QM-7305	\$9.95	\$8.75	\$7.75

NOTE!

Readings taken with these devices are for reference only. In spite of its quality and accuracy, errors may occur due to operation or environmental conditions and we accept no liability or responsibility whatsoever for any consequences arising from the use of these devices.

Fuel Cell Breathalyser

This isn't the first or only personal breathalyser available, but it uses an internal fuel cell to measure alcohol in your breath. This method is one of the more accurate ways to test and is closer to the technology police use to patrol the streets too. Testing is simple and blood alcohol is presented as a percentage on the digital display. Includes 3 x mouthpieces and a storage case. Of course all measurements are an indication only and you should only use them as a guide. The safest blood alcohol to drive with is zero.

- Fuel Cell technology for accuracy
- Digital readout
- Protective case

6 PACK OF MOUTHPIECES TO SUIT

Buy a pack of extra mouthpieces to avoid spreading germs when testing blood alcohol concentration across different people.

SPECIFICATIONS	QM-7308
Detection Range	0% to 0.400% BAC
Accuracy	+/- 0.005% @ 0.050% BAC
Battery	1 x 9V
Weight	131g
Dimensions	125(H) x 56(W) x 24(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Fuel Cell Breathalyser	QM-7308	\$169.00	\$151.95	\$134.95
Spare Mouthpiece	QM-7309	\$4.95	\$4.45	\$3.95

ACTION CAMERAS

Many of the low production budget car shows on FOXTEL® have video shots from the dashboard of the car looking back to the driver's or shots from the outside of the car. These shots are performed by so-called "action" cameras attached to the bodywork. They work and they work well, and expand the viewing experience.

Many people, however, pay big money for brand-name action cameras making the mistake that they have to pay the big bucks to get the best result. Action cameras have been around for over 10 years now and the first brand-name ones really were superior.

Secondary manufacturers (indeed the actual manufacturers of the brand-name units in many cases) now produce products that are as good as the brand models but are sometimes half the price of the prestige units. The engineers at Jaycar are not fooled by fancy brand names. We just look for similar specifications to the big brands and of course, case integrity and all-round quality.

If you are a reader of this catalogue you are technically elite enough to see through the marketing hype of brand names. Check out our range.

Oh, and note the warranties. Our gear is good and you will save money!

1080p Action Camera with LCD

Go anywhere, video everything! This is the sort of camera you can just give to the kids and let them run. At such a low cost, it's not quite so tragic if it's lost or damaged during some backyard antics. It records full HD 1080p video, and can even go swimming with them thanks to the 30m waterproof case. It will also take 3 megapixel photos. Compatible with our huge range of accessories to mount to a bike, skateboard, surfboard, or even the dog.



SPECIFICATIONS	QC-8075
Video Resolution	1080p @ 30fps 720p @ 60fps
Photo Resolution	8 megapixel
Battery Life	Up to 1.5hrs
Memory Card	microSD up to 32GB (Class 10 - not included)
Dimensions (With Case)	77(W) x 43(D) x 65(H)mm
Dimensions (Without Case)	59(W) x 31(D) x 41(H)mm



NEW
2017

1
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Action Camera	QC-8075	\$99.95	\$89.95	\$79.95
Spare Battery 3.7V 900mAh	QC-8081	\$11.95	\$10.75	\$9.55

1080p Wi-Fi Action Camera with LCD

This is a go-anywhere camera with enough capacity to film in slow-motion if you want it to (60fps). Ideal for capturing fine detail in sports or even adding a new dimension to backflips by the pool. When you download the Movii app, you can control and stream from the camera to your smartphone, so you see precisely what's happening wherever it's mounted. Its 30m rated waterproof enclosure means it's suitable for diving and watersports. The huge range of mounts and accessories mean you can use it however you like, and be confident you'll get the shot. Full HD video at up to 60fps (high speed), with full smartphone control - what a great idea.

- Full features and specifications: movii.com.au/neostream
- Search the App Store or Google Play for the Movii app to control this device!



SPECIFICATIONS	QC-8077
Video Resolution	3840 x 2160 @ 30fps (interpolated) 1920 x 1080 @ 60fps / 30fps
Photo Resolution	8 megapixel
Battery Life	Up to 1.5hrs
Memory Card	microSD up to 64GB (Class 10 - not supplied)
Dimensions (With Case)	77(W) x 43(D) x 65(H)mm
Dimensions (Without Case)	59(W) x 31(D) x 41(H)mm



NEW
2017

2
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Action Camera	QC-8077	\$169.00	\$151.95	\$134.95
Spare Battery 3.7V 900mAh	QC-8081	\$11.95	\$10.75	\$9.55

Alpha Stream 4K Camera with Wi-Fi

Never miss a detail with Ultra-HD 4K video capture! Using the included waterproof case (rated down to 30m underwater) you can capture stunning video just about wherever you like! Using the free iOS/Android app, you can control / stream / review footage on your smartphone too - very handy if you have the camera mounted out of reach. It uses the high quality Ambarella sensor, for stunning dynamic range and high quality video. In addition to the waterproof case, a clip-in shield case is included, along with helmet, suction, handle-bar mounts, a remote control, as well as car / USB charger.

- 4K UHD resolution
- 2" LCD Screen
- Waterproof 30m depth

*Note: At the time of publication this camera is still in final stages of development, so features and specifications may vary slightly.



SPECIFICATIONS	QC-8079
Resolution	4k: 4096 x 2160 @ 30fps, 1080p: 1920 x 1080 @ 60fps or 30fps
Ingress Protection	IPX8 (30m depth)
Photo Resolution	12 megapixel
Memory Card	microSD up to 64GB (Class 10 - not supplied)
Battery	3.8V, 1200mAh Li-ion (removable)
Battery life	Up to 1hr
Dimensions	53(W) x 40(D) x 51(H)mm (without case), 82(W) x 52(D) x 84(H)mm (with case)



NEW
2017

2
YEAR
WARRANTY

	Cat.	Qty 1+	Qty 4+	Qty 10+
Action Camera	QC-8079	\$399.00	\$359.00	\$319.00
Spare battery 3.7V 1,000mAh	QC-8083	\$14.95	\$13.45	\$11.95
64GB 4K Pro microSDXC Card	XC-4978	\$99.95		

Carry Case for Action Cameras

A foam lined protective carry case to suit our range of action cameras. The foam inserts are easily removed to accommodate your camera and all of its accessories. It even has a mesh lining in the lid to hold your cables and leads.

- Dimensions: 220 x 175 x 65mm

Note: Accessories not included



Anti Fog Sachet

You simply pop one of these sachets inside the camera case in a position where it will not block the lens. The desiccating (moisture absorbing) non-poisonous chemical keeps away any moisture which might otherwise fog-up the camera lens. Suitable for all Jaycar Action Cameras, GoPro® Hero™ 4/3/2/1 and other sport cameras.

- Pack consists of 5 re-useable sachets.



NEW
LOW
PRICE

	Cat.	Qty 1+	Qty 4+	Qty 10+
	QC-8059	\$19.95	\$17.95	\$15.95

	Cat.	Qty 1+	Qty 4+	Qty 10+
	QC-8076	\$3.95	\$3.55	\$3.15

ACTION CAMERA MOUNTS

A range of mounting accessories for our HD sports cameras. They allow you to capture the action from new angles for different scenarios. Mount on your chest for much better 'handle bar' view of mountain biking action, or mount to the tip of your surfboard. See our website for more details on each model.

TRIPLE SUCTION CUP MOUNT

This 3X suction cup mount is so secure it would mount on Bear Grill's back end and never come off! This is a seriously sturdy mount which is great for mounting on shiny surfaces such as cars, windscreens, other glass, enamel paint, fibreglass, smooth carbon fibre, etc. Supplied with a GoPro® type camera connection. Limited angular deflection.

Cat. QC-8088



"DOG MOUNT" HARNESS

This product has a curved metal adaptor plate with 6 adjustable straps to go completely around the torso of up to a large dog or other 4 legged animal. It is very, very similar to the original GoPro® dog mount.

Cat. QC-8090



WRIST STRAP ADAPTOR - 360° ROTATION

This unit will hook and loop strap around a wrist or upper arm to provide a secure anchor for the camera. Strap material is woven polyester, like a seatbelt. The camera can be rotated through 360° rotation. It is compatible with the GoPro® Hero™3+/3/2/1 models as well as Jaycar and other action cameras.

Cat. QC-8080



ZIP-TYPE WRIST MOUNT & GYMBAL ADAPTOR

This unit is similar to the QC-8080, except that the wrist securing device is easy to remove in an emergency, but perhaps not quite as secure as the QC-8080. The ball mount offers greater positional freedom than the QC-8080, however.

Cat. QC-8082



FLEXIBLE CLAMP MOUNT

This mount consists of a strong spring-like clamp and a flexible neck. It will work with all "GoPro" cameras, Jaycar Action Cameras and most other action cameras in the field.

Cat. QC-8078



360° ROTATION CLIP MOUNT

This unit has a sturdy mounting clip with the camera screw mount mounted to swing in a 360° arc. Suitable for Jaycar and other action cameras and of course the GoPro® Hero™ 3+/3/2/1. Colour black

Cat. QC-8086



CHEST MOUNT HARNESS

Cat. QC-8060



HELMET MOUNT

Cat. QC-8058



KIDS BIKE MOUNT 10-25MM

Cat. QC-8052



BIKE MOUNT 17-32MM

Cat. QC-8054



SPORTS CAM POLE MOUNT

Cat. QC-8056



SURFBOARD MOUNT

Cat. QC-8050



"UNIVERSAL" MINI TRIPOD KIT

A small lightweight tripod that will mount a Smartphone, 1/4" camera mount or a GoPro®. With locking adaptor and you can make some adjustments to your phone/camera when they are securely mounted.

A very handy and inexpensive accessory.

Cat. QC-8099

Smartphone not included



MONOPOLE MOUNT WITH GOPRO® ADAPTOR

Extends up to 1m.

Cat. QC-8066



FLOATING EXTENDABLE MONOPOD

Cat. QC-8096



Camera not included



3 WAY TRIPOD STAND

This is a small lightweight stand with a tripod base. It has 3 fold-out sections that will hold a GoPro® camera up to 1 metre off the floor. It is mainly intended for indoor use on a flat stable surface.

Cat. QC-8098

'HANDCUFF' CAMERA MOUNT

This mount enables you to mount your action camera to the left or right hand wrist of a felon. Just imagine! Capture all the scowls and grimaces as the criminal is led by Police into a courtroom or prison cell. Mount consists of 2 x black cable ties (UV Resistant). Other action camera mounts required to render total mounting system operational.

.....JUST JOKING :)

BUY ONLINE, COLLECT IN-STORE!

To check if your local store offers "Click & Collect" visit our website



▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Chest Mount	QC-8060	\$24.95	\$22.45	\$19.95
Helmet Mount	QC-8058	\$14.95	\$13.45	\$11.95
Bike Mount 17-32mm	QC-8054	\$16.95	\$14.95	\$13.45
Kids Bike Mount 10-25mm	QC-8052	\$14.95	\$13.45	\$11.95
Sports Cam Pole Mount 32-55mm	QC-8056	\$18.95	\$16.95	\$14.95
Wrist Strap Adaptor	QC-8080	\$19.95	\$17.95	\$15.95
Triple Suction Cup Mount	QC-8088	\$24.95	\$22.45	\$19.95
Surfboard Mount	QC-8050	\$29.95	\$26.95	\$23.95
Head Strap	QC-8062	\$16.95	\$14.95	\$13.45

▲	Cat.	Qty 1+	Qty 4+	Qty 10+
Dog Mount Harness	QC-8090	\$39.95	\$35.95	\$31.95
Monopole Mount with Adaptor	QC-8066	\$29.95	\$26.95	\$23.95
Zip-Type Wrist Gymbal Adaptor	QC-8082	\$24.95	\$22.45	\$19.95
Flexible Clamp Mount	QC-8078	\$29.95	\$26.95	\$23.95
Universal Mini Tripod Kit	QC-8099	\$14.95	\$13.45	\$11.95
Floating Extendable Monopod	QC-8096	\$49.95	\$44.95	\$39.95
360° Rotation Clip Mount	QC-8086	\$12.95	\$11.65	\$10.35
3 Way Tripod Stand	QC-8098	\$29.95	\$26.95	\$23.95

FUN & GAMES

Anywhere Table Tennis

Sometimes you really just need to drop everything for a spontaneous game of table tennis, but you probably find yourself without an appropriate table tennis table to use. Tragic - we know! But fear no more - with our Instant Table Tennis Game you can turn an ordinary table into hours of table tennis fun in a flash! The kit includes a retractable net that extends up to 1.7m with spring-loaded posts to hold firmly in position. Of course this isn't handball, so you also get a mesh bag with two paddles and two ping pong balls. Now there's no excuse to not scratch your ping pong itch, with an impromptu game.

- Collapsible net
- Spring-clamp net support posts
- Includes two paddles and two balls
- * Table not included

SPECIFICATIONS	GH-1162
Max Net Width	1.7m approx
Net Height	150mm from table (approx.)
Maximum Table Thickness	50mm

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1162	\$19.95	\$17.95	\$15.95
Ping Pong Balls - Pack of 6	GH-1163	\$9.95	\$8.95	\$7.95

Toilet Basketball

Banish boredom from the toilet with the Slam Dunk Basketball set. Perfect for sports lovers looking to practice their aim in private. Live those basketball dreams and shoot a 3 pointer on your own court.

Arrange the floor mat snugly around the base of your toilet bowl, set up the net and backboard, attach the ball holder to the wall and away you go. This set also works great in a bedroom or office.

- Set includes:
- 3 Mini basketballs
- 1 Ball Holder
- 1 Net with backboard
- Basketball Floor mat

▲	Cat.	Qty 1+
	GT-3708	\$14.95

Mini Retro Arcade Machine

Perfect for travel or home use, contains 300 built-in games playable on the 2.5 inch color display. Game types include strategy, racing, action, combat, sports and puzzles.

- Requires 3 x AA Batteries (Not included)
- Dimensions: 146(H) x 90(D) x 85(W)mm

For full list of games see our website.

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GT-3709	\$49.95	\$44.95	\$39.95

Electronic Dart Board

A completely automated way of enjoying Darts. Features over 25 classic dart games including 301, 501, cricket, cut-throat, count-up and more. It also has sound effects and talks you through the game and informs you whose turn it is, and so on. It features a special surface and safe plastic tip darts that you use instead of the regular metal type.

- There are over 25 classic dart games and up to 110 variations with handicapping.
- No metal tips - safe for children 8+ (with adult supervision)
- Supplied with 6 darts and 30 spare replacement tips
- Requires 3 x AA batteries
- Dimensions: 435(H) x 380(W) x 20(D)mm

▲	Cat.	Qty 1+
Dart Board	GH-1158	\$49.95

VR Goggles

These smartphone VR goggles utilise the power of your phone's processor, and its high definition screen, to provide you with a powerful and immersive experience. The utilisation of a smartphone keeps you untethered, we don't recommend playing near a cliff top or in traffic. A comfy chair, keeping clear of priceless artifacts is probably the best spot.

These goggles are far from cardboard though. Made of durable lightweight plastic with comfortable padding around the eye area, and a removable sled for your smartphone. The sled makes it very easy to remove to interact with your device, then slot back in to the goggles continue viewing. They also feature a sliding front-panel to allow your phone's camera to be used. This is usually for augmented reality (AR) which overlay on the video being displayed. Very versatile and universal, compatible with smartphones up to 80 x 150mm. The lenses are adjustable to suit just about everyone, and they'll comfortably fit over reading glasses too. For audio, simply use your usual headphones, providing an even more immersive experience. The large, fully adjustable elasticised straps will hold them firmly in place, and keep them comfortable to wear.

- Smartphone mounts inside goggles
- Adjustable straps
- Adjustable lenses
- Suits smartphones up to 80mm x 150mm
- Sliding front panel for augmented reality using camera
- Dimensions: 195(W) x 135(D) x 100(H)mm
- Weight: 400g

▲	Cat.	Qty 1+	Qty 2+	Qty 4+
	GT-3722	\$29.95	\$26.95	\$25.45

Hyper 8-Bit Retro Handheld Gaming Console

This self-contained personal game console has something for everyone. You'll find hours of addictive entertainment right at your fingertips (well... your thumb-tips). All controls are built in to the unit, which includes an 2.5" colour display. If by some feat of dedication you run out of games to play, a microSD card slot allows the addition of new games that are downloadable online. An integrated speaker provides audio (but you can switch the sound off to keep things discreet too).

- 2.5" colour LCD
- Integrated audio
- microSD expansion slot
- Batteries: 3 x AAA (required)
- Weight: 90g (excluding batteries)
- Dimensions: 150(W) x 73(H) x 22(D)mm

▲	Cat.	Qty 1+
	GT-3723	\$19.95

Infrared Gun & Mechanical Alien Bug Set

Train and master the weapon of your choice and get ready for the apocalyptic invasion of alien bugs! This hyper-real laser gun can simulate a pistol, shotgun, submachine gun and even rocket launcher. At 40m striking distance with vibration attacking alert, you can pick any battleground to test yourself in tricky scenarios. The alien bug pops belly up when shot on target, a few seconds later they pop back to life and scurry away. Purchase additional alien bugs (GT-4073) available separately and blast away hours of fun. Once mastered, you can setup up to four teams for a laser tag with your human counterparts.

- Includes 1 x laser gun and 1 x alien bug
- Gun battery: Requires 4 x AA
- Bug battery: 3.7V 45mAh rechargeable/USB charging cable supplied
- Recommended for ages: 8+
- Gun dimensions: 300(L) x 172(W) x 52(D)mm
- Bug dimensions: 75(L) x 57(W) x 45(H)mm

▲	Cat.	Qty 1+	Qty 3+
Gun with 1 Alien Bug	GT-4072	\$54.95	\$49.95
Additional Alien Bug	GT-4073	\$19.95	\$17.95

NOVELTY

Jaycar Back Scratcher & Shoe Horn

Scratch that itch and save your shoes with this novel 2-in-1 lifesaver.



NEW 2017

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	HB-5016	\$2.50	\$2.25	\$2.00

Keyring Keyfinder with LED Torch

Have you ever misplaced your keys and needed them in a hurry? This brilliant device will generate a beeping sound when it detects a whistle. It features a high performance IC with built-in auto power off function to preserve the batteries. It will work effectively within a 3 metre radius. It also doubles as a handy keyring torch!

- Batteries included (2 x LR44 batteries)
- Dimensions: 52(L) x 40(W) x 15(W)mm *Limited Stock*



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	XC-0351	\$7.95	\$7.10	\$6.25

Wall Mount LED Moon Lamp with Phases

This spherical textured lamp looks like the moon, and produces a gorgeous soft light. It can be set to automatically illuminate dark rooms, as well as colour shift and varying intensity. Remote control included for full control.

- Gorgeous soft light
- Remote control *Limited Stock*

SPECIFICATIONS	GT-4075
Moon Light	4 x AA Batteries (Not Included)
Remote	2 x AAA batteries (Not Included)
Battery Life	150hrs approx (auto mode)
Dimensions	250(Dia.) x 50(H)mm, 475g



NEW 2017

1 YEAR WARRANTY

▲	Cat.	Qty 1+
	GT-4075	\$17.95

USB Fan Clock

Uses 19 tiny LEDs to display the time in thin air! Using the rotation of the blades and well timed LED control, it will display an analogue-style clock with the current time. This is only possible due to a human trait called "persistence of vision". It's mounted on a gooseneck, includes an on/off switch & is USB-powered or via a USB mains adaptor.

- LEDs: 19 x SMD LEDs
- Power: 5VDC USB
- Gooseneck: 300mm long
- Fan: 70(L) x 100 (Dia. incl. blades) 30(Dia, excl. blades)mm



NEW 2017

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1079	\$19.95	\$17.95	\$15.95

Coin Counting Cup with LCD Display

A novel approach to the age old concept of the money box. A sensor in the coin slot determines the value of the coin that you deposit and keeps track of how much money you have saved! Your current total is displayed via the digital readout. The handy cup shape means that it will be quite at home in your vehicle's beverage holder. Requires 2 x AAA batteries.

- Australian currency only.



Not available in New Zealand

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GH-1314	\$19.95	\$17.95	\$15.95

Remote Controlled Secret Farter

We had lots of fun testing this remote controlled high-tech replacement for the traditional Whoopee Cushion. Just hide the box near your intended victim and activate it from up to 15 metres distance with your remote control button. Not only will they be embarrassed, they won't even know who is responsible. Great fun at home or the office.

- 7 different realistic fart noises
- Requires 4 x AA batteries
- 1 x 12V battery for key fob (supplied) Use SB-2376



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Secret Farter	GH-1088	\$19.95	\$17.95	\$15.95

USB Plasma Ball

Create a dazzling lighting effects with this USB Powered Plasma Ball that will surely impress your colleagues!

Plasma is the fourth state of matter - as the ball becomes energised, the gases inside light up and turn into plasma. By touching the outside of the ball, you provide a path for the energy to escape, so you can produce amazing effects.

- Requires 4 x AAA batteries for portable use
- Dimensions: 130(H) x 100(W)mm



Note: Laptop not included

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Plasma Ball	GE-4089	\$19.95	\$17.95	\$15.95

USB Keystroke Prankster

Unleash moments of confusion and panic on unsuspecting victims with what appears to be a USB drive. Simply plug it into their computer and it will either randomly type sentences, engage capslock or move the mouse on their PC. Little switches allow you to control the prank option and a dial will adjust the frequency. It's advisable to keep the frequency low to avoid suspicion. PC compatible.

- Prank capslock, keyboard, mouse or mixtures of all three
- Dial to adjust frequency from 5 seconds to 15 minutes
- Dimensions: 34(L) x 17(H) x 7(D)mm



It's tiny!

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GE-4300	\$29.95	\$26.95	\$23.95

Secret Book Safe

Looks like an ordinary dictionary from the outside, but it has a lockable safe hidden within. Fool thieves trying to steal valuables from your home or office, or give to your kids so they can hide their prized possessions from snooping siblings. It has a realistic looking cover and a metal construction inside.

- Two keys are supplied
- Dimensions: 240(H) x 155(W) x 55(D)mm



▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GT-3707	\$29.95	\$26.95	\$23.95

The Useless Box

One mystical black box with a single toggle switch. Every time you flip the switch, a little finger pops out from the box and turns itself off. No one on this planet has yet figured out a use for this, hence the name 'The Useless Box'. There is one thing however that we did notice, this magical box leaves anyone who comes into contact with a mesmerised smile on their face.

- Battery: Requires 2 x AA batteries
- Dimensions: 140(H) x 80(W) x 75(D)mm



You've got to watch the video!

It's addictive!

VIDEO ONLINE

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
	GT-3706	\$34.95	\$31.45	\$27.95

RELATED PRODUCTS

FROM
\$1.75
SB-2424



AA BATTERIES

P63

FROM
\$3.95
SB-2900



PANASONIC AA BATTERIES

P63

FROM
\$4.45
HB-6359



BATTERY CONTAINER

P59

FROM
\$13.95
QP-2252



BATTERY TESTER

P59

MINI RC CARS

Remote Controlled Car In a Can - 1:58

An ordinary looking soft drink can, but contained within is a little remote control car! These highly detailed 1:58 scale sports cars feature working LED headlights and red reverse lights, and come with 4 tiny red witches hats for refining your driving skills or for simply making mini crashes more dramatic. The car, remote control and witches hats all fit snugly inside the can. The cars are recharged by plugging into the remote control.

8 models to choose from with varying car designs and colours.

SPECIFICATIONS	GT-3596
Remote requires	2 x AA batteries
Charge time	5 minutes
Remote control	27MHz and 40MHz
Suitable for ages	3+
Car dimensions	75(W) x 45(W) x 20(H)mm Approx



Limited Stock



▲	Cat.	Qty 1+	Qty 3+
Each	GT-3596	\$19.95	\$17.95

Mini Remote Control Battle Tanks - 2 Pack

These mini battle tanks provide hours of entertainment. The two tanks can battle each other with infrared light beams. If you're hit, your controller will flash and vibrate. Get hit 4-times and you're out of the game! Each mini tank is recharged from the controller, which acts as a charging station too.

They only take about 10 minutes to charge, then you're set for a 5 minute battle (if you last that long!). Includes two tanks, two controllers.

8 x AA batteries required (4 for each controller. Batteries not included).

- Light and vibration indication
- Fast recharging - Hours of fun!

SPECIFICATIONS	GT-3221
Remote controls	27MHz
Battery	4 x 1.5V (AA)
Battle Tank Dimensions	55(L) x 41(W) x 100(H)mm


NEW
2017

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+	Qty 6+
Pair	GT-3221	\$49.95	\$44.95	\$39.95

QUADCOPTERS



6.5cm NIMBLE Nano Size RC Quadcopter

A tiny little quadcopter able to perform amazing aerial stunts.

Features the rock solid mid-air stability you would expect from a large quadcopter but can drop and flip at high speeds with the flick of a switch on the remote.

Perfect for indoor use.



Limited Stock

SPECIFICATIONS	GT-3950
Channels	4
Axis	6
Batteries	Remote requires 2 x AA
Flight time	6-7 minutes
Charge time	30 minutes
Charges off remote	No
Charges off PSU	No
Charges off USB	Yes
Transmitter	2.4GHz
Control distance	40m
Included Spare Parts	4 x Rotor blades
Recommended for ages	8+
Dimensions	66(L) x 66(W) x 25(H)mm

Box Contents:
1 x Quadcopter
1 x Remote Control
1 x Rechargeable Battery
4 x Spare Blades
1 x USB Charging Cable

NIMBLE

PILOT SKILL: BEGINNER

▲	Cat.	Qty 1+	Qty 3+
Quadcopter	GT-3950	\$39.95	\$35.95



9cm SKY WALKER Roll Cage RC Quadcopter

Fly through the air, climb up walls and roll across the ground with this fun mini quadcopter! The protective plastic and carbon fibre cage shields the quadcopter from impact and prevents damage to the blades. It also rights itself after crashing, saving time and making take offs hassle-free.

The six-axis gyro and four propellers give the quadcopter 360° movement, stability and control - offering a better user experience than traditional remote control helicopters. The LED light in the canopy makes it super fun for night flying! When charge is low, simply plug the quadcopter into a USB socket using the enclosed USB charging cable. With a range of up to 50 metres, this is a fantastic quadcopter for beginners 8 years and up.

Note: The rollcage can be removed. Stock may not match image colour.


NEW
2017

SPECIFICATIONS	GT-3952
Channels	4
Axis	6
Transmitter	2.4GHz
Drone Battery	3.7V LiPo rechargeable
Remote Control	Requires 4 x AA Batteries
Flight time	6 min
Charge time	60-90 mins
Recommended for ages	8+
Dimensions (with rollcage)	92(L) x 96(W)mm



PILOT SKILL: BEGINNER

▲	Cat.	Qty 1+	Qty 3+
Quadcopter	GT-3952	\$49.95	\$44.95

QUADCOPTERS (CONTINUED)

NEW
2017

38cm MYSTIQUE RC Quadcopter with 720p Camera - 2.4GHz

Tear through the sky and record video of the adventure! With a robust 2.4GHz transmitter, you get full control with up to 80m range. Convenient features such as headless flying, and automatic return home functions assist in keeping you airborne (or retrieve it if it flies out of range). Video is optionally recorded via MicroSD (4GB card included). One-touch flip function. Full trim controls for stable flight.



SPECIFICATIONS	GT-4125
Transmitter	2.4GHz
Camera Resolution	720p
Flight time	6-8 mins
Flip function	360°
Recording Method	<32GB microSD (4GB card included)
Drone Battery	7.4V 350mAh LiPo Rechargeable
Remote Control Battery	3.7V 350mAh LiPo Rechargeable
Weight	168g
Dimensions	320(L) x 310(W) x 52(H)mm

PILOT SKILL: INTERMEDIATE

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+
Quadcopter	GT-4125	\$149.00	\$133.95
Spare Parts	Cat.	Qty 1+	Qty 3+
Blades x 4	GT-4126	\$9.95	\$8.95
Li-Po 3.7V Battery	GT-4128	\$19.95	\$17.95

IMPORTANT SAFETY INFORMATION

In operating drones you become a pilot with responsibilities and must comply with rules set by relevant government authorities. Before you fly a drone be sure to check out the safety information guides put out by the relevant authorities shown below. You can download these guides from our website, pick up the guide in our store, or by visiting the following websites:

AU: www.casa.gov.au/rpa
NZ: www.caa.govt.nz/rpas

NEW
2017

20cm INVADER First Person View RC Quadcopter with 720p Camera - 2.4GHz

Put yourself in the cockpit with the INVADER quadcopter! Monitor flight footage captured by the built-in camera on the remote control's screen to get a different perspective and perfect your skills. The fisheye quadcopter camera lens provides unobstructed peripheral vision. Use the HD video & JPEG recording feature to capture take-offs, landings & in-flight antics! Footage is stored on the included 4GB microSD card. If you need more space, simply replace it with a larger card (up to 32GB). The quadcopter's four propellers make flight more stable - something novice pilots will appreciate! Both the quadcopter and remote control use rechargeable Li-Po batteries. When charge for either device is low, just plug it into a USB socket using the enclosed USB charging cable. We've also included spare propellers in case any require replacement due to a rough landing! With a range of up to 80 metres, this dynamic quadcopter is ideal for beginners 14 years and up. *Limited Stock*

SPECIFICATIONS	GT-4015
Transmitter	2.4GHz
Camera Resolution	720p
Flight Time	>6 Minutes
Modes	Forward, Backward, Left, Right, Up & Down
Screen Resolution	1280x720 FPV
Video Format	AVI
Image Format	JPEG
Storage	≤32GB microSD (4GB card included)
Remote Battery	3.7V 200mAh Li-Po (included)
Quadcopter Battery	3.7V 200mAh Li-Po (included)
Charge Time	40 Minutes
Remote Control Range	>80m
Chopper Dimensions	155(L) x 155(W) x 40(H)mm
LCD Screen	100(W) x 60(W)mm

2.4GHz
2.4GHz

PILOT SKILL: INTERMEDIATE

1
YEAR
WARRANTY

▲	Cat.	Qty 1+
Quadcopter	GT-4015	\$169.00
Spare Parts	Cat.	Qty 1+
Blades x 4	GT-4016	\$4.95
		\$4.45

38cm CODEBLACK 5.8GHz First Person View RC Quadcopter with 720p Camera - 5.8GHz

Put yourself in the cockpit with the CODE BLACK quadcopter! Monitor flight footage captured by the built-in camera on the remote control's screen to get a different perspective and perfect your skills. The fisheye quadcopter camera lens provides unobstructed peripheral vision. Use the HD video and JPEG recording feature to capture take-offs, landings and in-flight antics! Footage is stored on the included 4GB microSD card. If you need more space, simply replace it with a larger card (up to 32GB). The quadcopter's four propellers make flight more stable - something novice pilots will appreciate! Both the quadcopter and remote control use rechargeable Li-Po batteries, so you don't need to worry about battery replacement. When charge for either device is low, just plug it into a USB socket using the enclosed USB charging cable and you'll be back flying again shortly!

We've also included spare propellers in case any require replacement due to a rough landing! With a range of up to 80 metres, this dynamic quadcopter is ideal for beginners 14 years and up.

- Built-in camera
- HD video & photo recording
- Rechargeable
- 80m remote control range
- Return to home function
- Hover and headless modes
- 360° flips

5.8GHz



SPECIFICATIONS	GT-4165
Transmitter	5.8GHz
Camera Resolution	720p
Flight Time	>6 minutes
Modes	Hover, forward, backward, left, right, up, down
Screen Resolution	1280x720 FPV
Video Format	AVI
Image Format	JPEG
Storage	<32GB microSD (4GB card included)
Remote Battery	3.7V 200mAh Li-Po (included)
Quadcopter Battery	7.4V 350mAh Li-Po (included)
Charge Time	90 minutes
Remote Control Range	>80m

PILOT SKILL: INTERMEDIATE

1
YEAR
WARRANTY

▲	Cat.	Qty 1+	Qty 3+
Quadcopter	GT-4165	\$269.00	\$239.00
Spare Parts	Cat.	Qty 1+	Qty 3+
Blades x 4	GT-4166	\$9.95	\$8.95
Li-Po 3.7V Battery	GT-4168	\$19.95	\$17.95

NEW
2017

MORE ENTRIES IN OUR COMPETITION...



SHOW US YOUR BUILD COMPETITION

Robin, who shops at our Jaycar Blacktown store built:

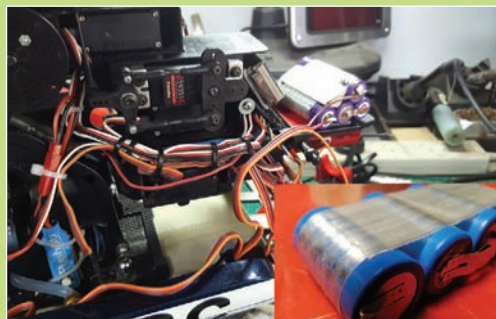
A Toy Proton Pack made using 3x SHETC201 LED Flasher (One unit the LED's are mounted remotely) 1 x SHETC218 Strobe Light and 1 x SHETC204 Knight Rider Scanner. The photo shows that all the LED's are lit because the photo was taken on a slow speed. My Grandson takes it everywhere.



SHOW US YOUR BUILD COMPETITION

Murray, who shops at our Jaycar Maddington store built:

Without Jaycar being 1km away from where I live, it would have take longer to acquire my switches, cable, cases, heat shrink, hardware etc etc to build my Cessna Simulator.



SHOW US YOUR BUILD COMPETITION

David, who shops at our Jaycar Reynella store built:

Soldering LED nav lighting and more battery power to my Jet Ranger RC helicopter. Added heat shrink after too. I'll be back!

SHOW US YOUR BUILD COMPETITION

James, who shops at our Jaycar Midland store built:

50,000 game arcade machine. Internal wiring / lighting / fittings all done by Jaycar.

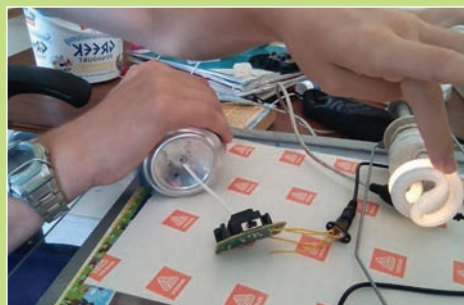
A picture speaks a 1,000 words.



SHOW US YOUR BUILD COMPETITION

William, who shops at our Jaycar Townsville store built:

Recently I built a life size 4 chamber Alien display which features lights, bubbles, sounds and creatures. The Arduino boards were used to control all of the pumps, bubbles, lights, and sound functions. Thanks to Carl and all of the team at Townsville Jaycar for their great help and assistance.



SHOW US YOUR BUILD COMPETITION

Christian, who shops at our Jaycar Cairns store built:

This project involves the insides of a plasma ball and a soda can putting the electrode inside a small hole poked into the bottom of the can. Hold the electrode and you can zap people with your finger or light up a fluorescent light bulb just by touching it!

Order Form



Post	Fax	Phone	Email
Freepost to Jaycar Techstore PO Box 7172 Silverwater DC NSW 1811	(02) 8832 3118	Free Call 1800 022 888 Credit Card Orders and International / Enquiries (02) 8832 3245	techstore@jaycar.com.au Website www.jaycar.com.au

Delivery Details

Name:

Phone: Fax:

Address:

Email:

Have you purchased by Mail Order from us before? ☐ Yes ☐ No

If YES, please specify your account number

Has your billing address changed since your last order? ☐ Yes ☐ No

Country: State: Postcode:

[illegible]

Freight

Invoice Value	Standard / Road Freight 2-5 working days	Premium Freight Orders made before 12:00pm on a working day for Metro areas, other Premium freight requires a street order. No delivery to P.O. boxes
\$10-\$99.99	\$7.00	\$9.00
\$100-\$199.99	\$9.00	\$11.00
\$200-\$499.99	\$12.00	\$16.00
Over \$500	\$17.00	POA*
Over 20kg	POA*	POA*
Overseas Airmail	POA*	NA

One whole dollar per \$100 goods value or part thereof (Australia only). See Terms & Conditions for details.

* POA: Our staff will calculate the freight charge based on the order, freight method and destination. Staff will promptly contact you to advise of the charge

Subtotal		
Insurance		Aerosol, flammables, heavy and bulky items can only be sent by road.
Freight		Out of stock items: Items under \$10 are not back ordered. Please re-order once item(s) are in stock. If your order is unusually bulky, heavy or fragile, we may choose to send your goods to you by road at our expense. We cannot send goods by road to a PO Box. However, if you feel your order may fit into this category, please include a street address -either work or home.
Subtotal		
Total		Freight information. Simply add the amount shown in the freight charges chart on the left. Don't forget to add extra amount for animal

Minimum order \$10

Aerosol, flammables, heavy and bulky items
can only be sent by road.

Out of stock lines: Items under \$10 are not back ordered. Please re-order once item(s) are in stock. If your order is unusually bulky, heavy or fragile, we may choose to send your goods to you by road at our expense. We cannot send goods by road to a PO Box. However, if you feel your order may fit into this category, please include a street address - either work or home.

Freight information. Simply add the amount shown in the freight charges chart on the left. Don't forget to add extra amount for airmail and insurance if you require these services. These charges are for goods sent by post in Australia only - not airmail overseas or road freight.

Final check. Please make sure that you have given full details of the products you require, the correct prices, the full postage or transportation cost, plus make sure that your name and address are legible.

Your order will arrive faster if **a**l details given are correct.
Minimum order amount \$10,
14 Day satisfaction guarantee.
Provided that you have returned the goods in original condition (and that means the outer packaging, if any, must be unmarked). You must keep your invoice as proof of purchase. We will not refund post, packing, insurance or other transport charges. Freight on returned goods must be pre-paid. Do not return goods by COD. Please do not ask for a refund after 14 days from purchase date (this allows for transportation delays).

*Overnight delivery. Available on request subject to conditions: Max physical/cubic weight 5kg. Area must be covered by next day service (phone for details). No PO Box address.

*Please see the Jaycar website for full terms and conditions.

Payment Details

Rewards or Trade Card Number

☐ Cheque/Money Order in A\$ (do not post cash) ☐ Credit Account (approved customers only)

 Gift Card

☐ Mastercard ☐ Visa ☐ Amex




 AMEX incurs a non-refundable 2.7% + GST Surcharge

Signature

Card Num Exp: /

Exp: /

DISCLAIMER

All possible care has been taken in the preparation of this catalogue. However, specifications and particulars in relation to the products referred to in this catalogue are subject to change without prior notice. Some photographs contain samples which are representative only. Stocked item may vary in colour and look. Jaycar Electronics will not be held liable for any errors or omissions.

PRICES

All prices quoted in this catalogue include Goods and Services Taxes (GST) and are current at the time of printing. So you can be confident of price stability. At Jaycar Electronics, we make every endeavour to maintain prices for the life of the catalogue. However, factors beyond our control (such as changes in foreign currency exchange rates, changes in base material costs etc.) may vary costs and we reserve the right to amend prices accordingly.

STOCK AVAILABILITY

At Jaycar Electronics we are constantly seeking new products and due to the rapid developments within the electronics industry some products in this catalogue may become obsolete or discontinued during its life. In the event of this happening we apologise for the inconvenience and where possible will substitute a similar product of equal or better quality.

OUR RAINCHECK

If your local Jaycar Electronics store has sold out of a currently advertised line, we will be happy to issue you with a 'raincheck'. This 'raincheck' can be presented as soon as the stock arrives and you can buy the original item (or its comparable product) at the advertised price - even if the original promotion has ended. 'Rainchecks' do not apply to items that have been advertised as 'limited', 'discontinued', 'surplus' or 'clearance' ranges.

'CHANGE OF MIND' RETURNS

Although not obligated to do so, at Jaycar Electronics we appreciate that you may have second thoughts about your purchases and will give a 'Change of Mind' refund if goods are returned within 7 days (14 days for mail order and internet purchases). For 'Change of Mind' purchases, goods can only be accepted back for refund or exchange in "as sold" condition including undamaged original packaging, complete instruction books, manuals, accessories, etc. If freight expenses of any type have been incurred, these are not refundable. We regret that any cash, credit card, or EFTPOS refunds over \$250 must be refunded by cheque for security reasons. Jaycar does not provide credit notes. Your Sales Docket must accompany all returns. *Note: Refunds on 'Change of Mind' purchases do not apply to books, batteries, headphones, health products, semiconductors, computer software, all recordable media, some tools and non multimeter test equipment (including cathode ray oscilloscopes), step-down transformers (240-100V), some party lighting and associated products.

WARRANTIES

Jaycar warranty period is 3 months from date of purchase, or such longer period as stated in this catalogue. Many products carry one year, two year, five year, or lifetime warranty or may qualify for over-the-counter replacement. These items are identified in the catalogue by the icons explained on page 5. If any defect in materials or workmanship in product sold by Jaycar Electronics is identified and notified to us within the warranty period then we will, at our discretion repair or replace the product. Jaycar Electronics does not accept any liability beyond this for consequential loss. Warranty is subject to us being satisfied that a defect was caused by defective workmanship or materials and was not caused by or was not substantially contributed to by other factors beyond our control, including (but not limited to) defective installation, maintenance, or repair; alterations or modifications of the product in a manner not recommended by the manufacturer; or any neglect, misuse or excessive use. The original Sales Docket or cash receipt must accompany warranty claims to provide starting date of the warranty period.

KIT WARRANTY

Most kits are successfully constructed with few problems however, once the kit is under construction all warranty is void, as we cannot guarantee assembler's workmanship or components that have been used.

STATUTORY WARRANTIES

Any statutory warranties applicable to your purchase will be honoured by Jaycar in addition to the warranties set out herein. If there is any conflict between any warranty herein contained and a statutory warranty, the terms of the statutory warranty will prevail.

FREIGHT CHARGES RELATING TO WARRANTY ITEMS

Warranty repairs or replacements of goods is free of charge however freight charges to and from the service department is required to be paid by the customer.

TRADE CARD

If you are professionally engaged in some aspect of the electronics industry on a daily basis, you may qualify for a Jaycar Electronics Trade Card. This facility is available in every store including TECHSTORE, to provide you with the opportunity to purchase at special

trade prices. Simply call into your local Jaycar store and ask the manager or if you are a TECHSTORE customer email us at techstore@jaycar.com.au. We can provide you with convenient locations, fantastic service and great prices! (Not available for transactions outside Australia and New Zealand.)

REWARDS CARD

For a full list of terms & conditions go to www.jaycar.com.au/rewards

ACCOUNT FACILITIES

Jaycar Electronics is happy to provide account facilities for the following organisations:

- Schools (Government & non-Government), TAFE, Colleges and Universities
- State & Federal Government Depts, including research facilities
- Hospitals
- Mining companies
- TV & Radio Stations
- ALL public ('LTD') companies

ALL 'Pty Ltd' companies, Sole Traders or Partnerships must complete an account application form. Simply write to "The Financial Controller", PO Box 7172 Silverwater NSW 1811.

If you are one of the above you can buy from us on a 30-day (strictly from invoice) account. The invoice will go with the goods or to your accounts payable office (you nominate). Non Payment of monies due will be cause to discontinue supply and to commence recovery procedures.

RECOVERY OF MONIES OWED

In the event that Jaycar needs to recover monies owed then the full balance on the account becomes due and payable and all costs of recovering this money will be borne by the debtor.

TECHSTORE - MAIL ORDER & INTERNET PURCHASES

For Mail Order & Internet Purchases special conditions apply:

- Goods - Aerosols, flammable, heavy and bulky items cannot be sent by post.
- Payment - via cheque, money order or credit card (MasterCard, Visa, American Express).
- Minimum Order Value - Mail order & Internet purchases have a minimum order value of \$10.
- International Orders - Please remember you may have to pay customs and importing charges at your end (if applicable). We cannot supply full customs documentation, but all parcels include required customs dockets. Should you require to return goods for any reason from outside Australia it is essential that customs documentation is included. If customs dockets are not included it can be a costly exercise to have the goods cleared by Customs and the customer must pay this charge. Failure to include customs documentation may result in long delays. Note: Jaycar Electronics cannot accept any responsibility or liability for the suitability of any product for use outside Australia, nor its compliance with local regulations.
- Freight - Various freight options and rates are given on the order form. After selecting the freight option that suits you, please clearly mark it and add these additional charges to the total on your order. Goods cannot be delivered to a PO box via road or air courier service.
- Missing or Damaged Goods - At Jaycar, we've sent out hundreds of thousands of parcels via post over the last 30+ years and the number of items that have been genuinely lost is less than 0.001%. We've found road and air transportation equally as reliable. However it must be emphasised that our responsibility for the goods ceases when the goods are handed over to the nominated carrier. Risk on the goods passes to you when the goods leave our warehouse. Our order form allows you to elect to have goods insured against loss in transit at your cost - otherwise loss of goods in transit is at your own risk. All claims for missing and damaged goods in transit must be lodged with the carrier or local Post Office. If goods have been insured please contact Jaycar Electronics.

- Insurance - If you wish to insure, it will cost \$1 for every \$100 value or part thereof eg. If your order is for \$145 the insurance will be \$2. This insurance covers goods DAMAGED in transit. (Note: Some items such as solar panels etc. are difficult to ship and have a higher insurance fee of \$7.50 per \$500.) If you do not wish to insure, a statement saying 'Insurance Declined' will appear on the order. If you post an order don't forget to consider insurance. We do not automatically issue insurance unless you specify. If you don't mention insurance you will NOT be insured.

- Out of Stock Items - Items under \$10 are not back ordered. Please re-order once item(s) are in stock.

STORE LOCATIONS AND HOURS

Store locations and hours are located on the back of this catalogue and were correct at time of print. For new stores and current trading hours visit our website at www.jaycar.com.au.

ANY PROBLEMS

We are proud of our standing with our Customers and are keen to get any feedback, good or bad, to improve our service, products, stores - or any aspect of our business. So please, do not hesitate to contact us.

JAYCAR AUTHORISED STOCKISTS/WHOLESALE ENQUIRIES

A listing of Jaycar Stockists in your area can be found on the inside back cover of this catalogue. For new Stockists visit our website at www.jaycar.com.au. If you are a reseller of electronics goods you may be able to increase your income by reselling Jaycar products. For more information contact The Stockist Manager on 1300 738 555 or email stockist@jaycar.com.au. For wholesale enquiries, please refer to our main supplier Electus Distribution (Australia: 1300 738 555 & New Zealand: 0800 235 328).

PRIVACY POLICY

Jaycar Pty Ltd (Jaycar) is committed to protecting the privacy of all individuals. To deliver our commitment to privacy, we will comply with the legislation and regulations of the countries in which we operate. This statement provides a succinct overview of how we handle personal information. Our complete Privacy Policy can be accessed on our website. Both this Condensed Privacy Policy and the complete Privacy Policy were updated March 2014. As an Australian registered company, Jaycar is bound by the current Privacy Act, any amendments and the Australian Privacy Principles (APPs) contained within that Act. All employees and officers of Jaycar are required to comply with the Act and this Privacy Statement. Jaycar has a Privacy Act Procedure which can be obtained by emailing privacyofficer@jaycar.com.au. Information or opinions which are collected, held, used or disclosed by Jaycar about an individual whose identity is apparent, or can reasonably be ascertained, will be protected by the standards outlined in this Statement. To deliver our commitment to privacy, we will:

- Be bound by, and comply with, the APPs under the Act in relation to personal information
- Communicate this Privacy Statement to all employees and stakeholders to ensure awareness of their requirement to comply with our privacy standards and to anyone else who asks for it
- Ensure lawful, fair and unobtrusive means are used to collect personal information that is necessary for our business purposes
- Collect sensitive information only with the individual's consent and not disclose any personal information to an unrelated third party, except with the individual's consent or where we are required to do so by law
- Take reasonable steps to destroy or de-identify personal information in a secure manner when we have no further need for it or are required to do so by law
- Ensure only authorised personnel who have agreed to keep personal information confidential have access to the information
- Take reasonable steps to keep personal information up to date, accurate and complete
- Provide individuals access to their personal information on request
- Periodically review and revise this Privacy Statement and related procedures to maintain relevance.

Jaycar recognises and respects the importance of each individual's privacy. This Statement and related procedures ensure all personal information held by Jaycar is handled appropriately and kept confidential.

What do we use personal information for?

Any personal details you provide will be used for the purpose of dealing with your request, enquiry, transaction or application for employment. This may involve disclosing your personal information to companies within the Jaycar Group, or to service providers who assist us in operating our business. These organisations are required to comply with the principles of this Statement.

Data Security

We take steps to protect the personal information we hold against loss, unauthorised access, use, modification or disclosure, and against other misuse. When the personal information that we collect is no longer required, we destroy or delete it in a secure manner, in accordance with our documented procedure.

Your Choices

You can access the personal information that we hold about you, and you can ask us to correct the personal information we hold about you. For more information, see our complete Privacy Policy which located on our website. If you are listed on one or more of our media or network email lists you can opt out at any time. You can unsubscribe by using the 'unsubscribe' link in our emails.

Our Obligations

Jaycar is bound by the information Privacy Principles in the Privacy Act. For more details see our complete Privacy Policy on our website.

How to Contact us

For further information contact us on privacyofficer@jaycar.com.au or alternatively you can write to Privacy Officer, Jaycar Electronics PO Box 7172 Silverwater NSW 1811, Australia.

LEGAL JURISDICTION

Jaycar operates under the laws and regulations of the State of New South Wales. Therefore any legal disputes will be conducted in courts or tribunals situated in New South Wales and under the laws and regulations of New South Wales, Australia.

A	AA-0220	313	AA-0223	313	AA-0225	313	AA-0236	314	AA-0237	314	AA-0238	314	AA-0262	48, 314	AA-0266	313, 501	AA-0274	273, 314	AA-0323	314	AA-0346	314	AA-0348	44	AA-0361	23	AA-0364	314	AA-0372	313	AA-0373	313	AA-0374	464	AA-0375	464	AA-0376	314, 464	AA-0377	314	AA-0378	314	AA-0405	87	AA-0414	109	AA-0416	507	AA-0418	507	AA-0419	507	AA-0442	461	AA-0470	109	AA-0472	108	AA-0482	506	AA-0486	108	AA-0487	108	AA-0488	108	AA-0505	109	AA-0517	108	AA-0518	108	AA-0519	109	AA-0583	273	AA-0595	273	AA-2007	117	AA-2013	115	AA-2023	115	AA-2032	117	AA-2037	116	AA-2047	508	AA-2061	117	AA-2080	117	AA-2083	116	AA-2086	116	AA-2087	82	AA-2090	115	AA-2093	115	AA-2096	115	AA-2099	116	AA-2102	82	AA-2103	116	AA-2104	82	AA-2105	82, 356	AA-2108	82	AA-2110	82	AA-2126	117, 400	AA-2130	116	AA-2133	117	AA-2134	116	AA-2135	115	AA-2136	115	AA-3060	506	AA-3074	506	AA-3078	506	AA-3084	80, 506	AA-3086	506	AB-1222	128	AB-1224	128	AB-1229	128	AB-3440	237	AB-3452	237	AB-3456	237	AB-3458	237	AB-3459	237	AB-3462	237	AB-3464	237	AB-3466	237	AC-1592	80	AC-1593	81	AC-1594	81	AC-1615	79	AC-1618	109	AC-1633	80	AC-1639	79, 396	AC-1646	81	AC-1649	81	AC-1650	81	AC-1652	81	AC-1655	81	AC-1658	80	AC-1665	111	AC-1671	83	AC-1683	109	AC-1685	111	AC-1703	76	AC-1705	74	AC-1706	74	AC-1707	76	AC-1710	75	AC-1712	75	AC-1714	76	AC-1715	80	AC-1716	80	AC-1718	79	AC-1719	79	AC-1720	77	AC-1721	78	AC-1722	78	AC-1724	78	AC-1727	78	AC-1729	78	AC-1730	76	AC-1732	77	AC-1734	77	AC-1735	77	AC-1736	77	AC-1738	73	AC-1741	79	AC-1744	85	AC-1745	74	AC-1755	397	AC-1757	397	AC-1760	74	AC-1762	74	AC-1766	75	AC-1768	75	AC-1769	75	AC-1770	78	AC-1773	77	AC-1774	79	AC-1776	79	AC-1778	425	AF-1211	128	AF-1212	128	AF-1213	128	AF-1214	128	AF-1220	128	AF-1221	128	AF-1222	128	AI-5500	429	AM-2050	516	AM-2052	122	AM-2054	122	AM-4010	118	AM-4011	118	AM-4041	123	AM-4042	123	AM-4053	123	AM-4055	123	AM-4089	399	AM-4092	118	AM-4095	123	AM-4096	119	AM-4099	119	AM-4101	118	AM-4107	119	AM-4108	120	AM-4109	122	AM-4111	119	AM-4113	119	AM-4116	120	AM-4118	120	AM-4119	120	AM-4127	119	AM-4129	118	AM-4130	119	AM-4131	118	AM-4132	120	AM-4155	121	AM-4156	121	AM-4160	121	AM-4161	121	AM-4162	121	AM-4165	121	AM-4166	121	AM-4170	122	AM-4171	122	AM-4172	122	AM-4173	122	AM-4190	119	AM-4192	119	AM-4208	125	AM-4209	125	AM-4310	429	AP-4003	103	AR-1415	369	AR-1416	404	AR-1418	102	AR-1458	106	AR-1470	403	AR-1480	403	AR-1721	106	AR-1731	84	AR-1733	106	AR-1736	106	AR-1737	84	AR-1748	107	AR-1753	105	AR-1760	356	AR-1771	485	AR-1780	106	AR-1800	515	AR-1804	515	AR-1809	85	AR-1811	85	AR-1812	85	AR-1813	85	AR-1819	85	AR-1821	85	AR-1823	85	AR-1827	85	AR-1828	85	AR-1834	85	AR-1913	83	AR-1914	367	AR-1915	83	AR-1916	83	AR-1922	367	AR-1945	107	AR-1946	107	AR-1947	107	AR-1954	84	AR-1955	84	AR-1956	84, 368	AR-1957	84	AR-1958	84	AR-1959	84	AR-3113	356	AR-3125	356	AR-3127	356	AR-3133	356, 507	AR-3134	357	AR-3135	357	AR-3136	356, 507	AR-3137	356, 507	AR-3250	504	AR-3253	504	AR-3260	504	AR-3273	390	AR-3277	390	AR-3286	390	AR-3288	390	AR-3310	369	AR-3311	369	AR-3312	369	AR-3330	369	AR-3332	369	AR-3334	369	AR-3336	369	AS-3000	114	AS-3002	114	AS-3004	114	AS-3006	114	AS-3007	114	AS-3008	114	AS-3025	114	AS-3029	115	AS-3030	114	AS-3032	114	AS-3034	114	AS-3039	114	AS-3180	436	AS-3182	378	AS-3185	378	AS-3186	378, 478	AS-3187	378	AS-3190	436	AS-3300	115	AS-3305	115	AU-5550	270	AX-3550	111	AX-3560	111	AX-3662	504	AX-3680	504	AX-3681	113, 504	AX-3687	113, 504	AX-3689	113, 504	AX-3694	113	BE-1535	42	BE-1536	449	BE-1537	42	BE-5025	312	BI-8200	307	BI-8206	418	BI-8212	343	BJ-8502	296	BJ-8504	296	BJ-8505	296	BM-2430	261	BM-2440	249	BM-2466	261	BM-2470	262	BM-2471	262	BM-2490	378	BM-7106	275	BM-7108	307	BM-7122	349	BM-7132	347	BM-7133	347	BM-7134	347	BM-7135	347	BM-7136	347	BM-7137	347	BM-7142	347	BM-7144	346	BM-7200	205	BT-1347	263	BT-1380	347	BT-1382	347	BT-1384	346	BT-1386	266	CF-2752	113	CF-2763	113	CL-2800	126	CS-2286	506	CS-2310	505	CS-2312	505	CS-2314	505	CS-2316	505	CS-2400	505	CS-2401	505	CS-2402	505	CS-2410	503	CS-2412	503	CS-2431	103	CS-2451	110	CS-2453	110	CS-2455	110	CS-2459	103	CS-2462	110	CS-2463	103	CS-2468	110	CS-2470	111	CS-2472	111	CS-2475	111	CS-2476	111	CS-2477	111	CS-2478	111	CS-2482	124	CS-2483	124	CS-2484	124	CS-2487	123	CS-2488	123	CS-2491	124	CS-2492	124	CS-2493	125	CS-2494	125	CS-2566	124	CS-2864	125	CT-1930	112	CT-2007	112	CW-2190	112	CW-2192	112	CW-2194	112	CW-2196	112	CW-2198	112	CW-2199	112	CW-2803	102	CW-2820	102	CW-2839	398	CW-2840	102	CW-2841	102	CW-2851	100	CW-2853	100	CW-2854	101	CW-2856	102	CW-2857	102	CW-2859	101	CW-2861	101	CW-2864	100	CW-2865	101	CW-2866	101	CW-2867	101	CW-2868	101	CW-2869	101	CW-2870	398	CW-2871	398	CW-2874	398	CW-2875	398	CW-2876	398	CW-2877	102	CW-2878	100	CW-2879	102	CW-2880	398	CX-2688	113	D	DC-1009	372	DC-1017	372	DC-1018	373	DC-1027	373	DC-1029	373	DC-1031	374	DC-1034	373	DC-1035	373	DC-1036	373	DC-1039	374	DC-1042	373	DC-1048	373	DC-1049	373	DC-1056	373	DC-1062	374, 379	DC-1065	379	DC-1066	374	DC-1067	374, 379	DC-1068	379	DC-1074	374	DC-1075	374, 379	DC-1076	374	DC-1093	379	DC-1096	379	DC-1099	374, 379	DC-1120	375	DC-1121	375	DC-1122	375	DC-1124	375	DC-1125	375	DC-2030	377	DC-3060	377	DC-3062	377	DC-3066	377	DC-3071	377	DC-3073	377	DC-3074	377	DC-3075	378	DC-3076	377	DC-3077	378	DC-3078	377	DC-3080	377	DC-3082	377	DC-9000	373	DC-9002	373	DC-9004	373	DC-9006	373	DC-9008	374	DC-9010	374	DC-9012	375	DC-9014	375	DC-9016	376	DC-9018	376	DC-9020	374	DC-9022	374	DC-9024	374	DC-9026	374	DC-9028	373	DC-9030	373	DC-9032	373	DC-9034	373	DC-9036	373	DC-9038	373	DC-9040	375	DC-9042	375	DC-9044	373	GE-4051	104	GE-4056	104	GE-4077	104	GE-4085	105	GE-4089	523	GE-4100	104	GE-4101	104	GE-4102	105	GE-4137	104	GE-4250	478	GE-4300	400, 523	GG-2129	493	GG-2134	493	GG-2340	496	GG-2342	496	GH-1067	518	GH-1071	497	GH-1079	523	GH-1088	523	GH-1113	486	GH-1158	522	GH-1162	522	GH-1163	522	GH-1266	495	GH-1281	497	GH-1284	497	GH-1285	497	GH-1286	497	GH-1289	497	GH-1290	497	GH-1291	497	GH-1292	368	GH-1293	497	GH-1303	495	GH-1314	523	GH-1373	494	GH-1379	16	GH-1380	495	GH-1384	494	GH-1398	497	GH-1399	497	GH-1519	518	GH-1521	518	GH-1523	518	GT-3221	524	GT-3596	524	GT-3706	523	GT-3707	523	GT-3708	522	GT-3709	522	GT-3722	522	GT-3723	522	GT-3751	289	GT-3950	524	GT-3952	524	GT-4015	525	GT-4016	525	GT-4072	522	GT-4073	522	GT-4075	523	GT-4125	525	GT-4126	525	GT-4128	525	GT-4165	525	GT-4166	525	GT-4168	525	HB-5016	523	HB-5029	259	HB-5030	259	HB-5031	259	HB-5036	259	HB-5040	259	HB-5041	259	HB-5042	259	HB-5044	259	HB-5046	259	HB-5050	259	HB-5060	259	HB-5062	259	HB-5063	259	HB-5064	259	HB-5067	259	HB-5120	408	HB-5125	408	HB-5130	408	HB-5170	408	HB-5171	408	HB-5174	408	HB-5180	408	HB-5182	408	HB-5200	257	HB-5202	257	HB-5204	257	HB-5404	408	HB-5405	408	HB-5406	408	HB-5420	408	HB-5422	408	HB-5424	408	HB-5426	408	HB-5430	407	HB-5432	407	HB-5434	408	HB-5436	408	HB-5442	259	HB-5446	259	HB-5450	407	HB-5452	407	HB-5454	407	HB-5470	408	HB-5472	408	HB-5556	259	HB-5605	256	HB-5610	256	HB-5900	256	HB-5910	258	HB-5912	258	HB-5922	258	HB-5970	258	HC-4002	461	HC-4030	49	HC-4034	49	HC-4038	49	HC-4039	49	HC-4040	49	HB-6009	257	HB-6011	256	HB-6012	256	HB-6013	256	HB-6014	256	HB-6015	256	HB-6016	256	HB-6023	256	HB-6024	256	HB-6025	256	HB-6030	257	HB-6031	257	HB-6032	257	HB-6034	257	HB-6036	257	HB-6065	257	HB-6068	257	HB-6075	257	HB-6080	257	HB-6081	257	HB-6082	257	HB-6120	258	HB-6121	258	HB-6122	258	HB-6123	258	HB-6124	258	HB-6125	258	HB-6126	258	HB-6127	258	HB-6128	258	HB-6129	258	HB-6130	258	HB-6132	258	HB-6134	258	HB-6138	258	HB-6172	19	HB-6173	19	HB-6211	255	HB-6212	255	HB-6213	255	HB-6216	255	HB-6217	255	HB-6218	255	HB-6219	255	HB-6220	255	HB-6221	255	HB-6223	255	HB-6224	255	HB-6230	255	HB-6248	255	HB-6249	255	HB-6251	255	HB-6301	186	HB-6302	186	HB-6304	185	HB-6305	185	HB-6306	185	HB-6308	185	HB-6312	185	HB-6313	185	HB-6317	186	HB-6318	186	HB-6323	186	HB-6330	186	
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HP-0440	169	HP-1172	266	HS-8804	43	KC-5466	306	KJ-8114	302	LA-5073	435	LA-9026	438	LT-3035	91	MB-3699	448
HP-0441	169	HP-1174	266	HS-8805	43	KC-5467	307	KJ-8115	302	LA-5074	435	LA-9027	464	LT-3040	91	MB-3710	54
HP-0450	169	HP-1176	266	HS-8806	43	KC-5473	311	KJ-8200	299	LA-5075	435	LA-9028	438	LT-3041	91	MB-3717	364
HP-0451	169	HP-1182	168	HS-8807	43	KC-5475	308	KJ-8201	299	LA-5076	435	LE-8775	233, 470	LT-3042	91	MB-3719	364
HP-0453	169	HP-1184	168	HS-8810	43	KC-5478	305	KJ-8202	299	LA-5077	430	LE-8776	233, 470	LT-3044	97	MB-3720	365
HP-0462	169	HP-1186	168	HS-8811	43	KC-5488	306	KJ-8203	299	LA-5078	430	LE-8777	233, 470	LT-3045	97	MB-3723	365
HP-0465	169	HP-1188	168	HS-8812	43	KC-5489	307	KJ-8204	299	LA-5082	470	LE-8779	233, 470	LT-3046	97	MB-3724	364
HP-0468	169	HP-1190	170	HS-8813	43	KC-5491	309	KJ-8205	299	LA-5101	418	LF-1010	285	LT-3047	97	MB-3725	365
HP-0550	169	HP-1192	273	HS-8860	43	KC-5496	311	KJ-8206	299	LA-5102	434	LF-1012	285	LT-3058	91	MB-3726	364
HP-0554	169	HP-1193	273	HS-8862	43	KC-5498	308	KJ-8207	299	LA-5106	418	LF-1016	285	LT-3062	92	MB-3728	364
HP-0558	169	HP-1195	168	HS-8864	43	KC-5501	304	KJ-8208	299	LA-5107	418	LF-1020	285	LT-3063	91	MB-3729	365
HP-0565	169	HP-1196	168	HS-8866	43	KC-5502	305	KJ-8209	299	LA-5108	418	LF-1050	286	LT-3065	91	MB-3734	499
HP-0620	169	HP-1198	168	HS-9002	358	KC-5503	313	KJ-8210	299	LA-5112	436	LF-1060	286	LT-3066	91	MB-3736	499
HP-0624	169	HP-1200	168	HS-9012	358	KC-5504	306	KJ-8211	299	LA-5114	418	LF-1062	286	LT-3067	92	MB-3740	446
HP-0625	169	HP-1201	168	HS-9022	358	KC-5506	309	KJ-8212	299	LA-5115	418	LF-1100	285	LT-3072	91	MB-3742	446
HP-0626	169	HP-1202	168	HS-9023	358	KC-5507	309	KJ-8213	299	LA-5142	433	LF-1102	285	LT-3074	91	MB-3746	446
HP-0628	169	HP-1203	168	HS-9027	358	KC-5510	308	KJ-8214	299	LA-5146	433	LF-1104	285	LT-3076	91	MB-3752	500
HP-0638	169	HP-1204	168	HS-9033	358	KC-5511	305	KJ-8215	299	LA-5147	433	LF-1106	285	LT-3116	93	MB-3753	498
HP-0650	104	HP-1205	168	HS-9034	358	KC-5512	311	KJ-8216	299	LA-5149	433	LF-1108	285	LT-3137	93	MB-3756	500
HP-0680	170	HP-1206	150	HS-9036	358	KC-5513	306	KJ-8217	299	LA-5155	439	LF-1220	285	LT-3141	94	MB-3757	498
HP-0682	170	HP-1209	168	HS-9039	357, 507	KC-5514	310	KJ-8218	299	LA-5157	439	LF-1222	285	LT-3143	94, 494	MB-3758	499
HP-0692	170	HP-1210	168	HS-9050	357	KC-5516	313	KJ-8219	299	LA-5158	440	LF-1250	285	LT-3151	95	MB-3762	499
HP-0694	170	HP-1211	168	HS-9052	357	KC-5517	310	KJ-8220	299	LA-5159	433	LF-1256	285	LT-3152	95	MC-7200	501
HP-0702	167	HP-1212	168	HS-9054	357	KC-5518	311	KJ-8221	299	LA-5176	431	LF-1258	285	LT-3153	95	MC-7202	501
HP-0704	167	HP-1213	168	HS-9055	357	KC-5519	309	KJ-8222	300	LA-5177	437	LF-1260	285	LT-3154	95	MD-7000	352
HP-0716	167	HP-1214	152	HS-9056	357	KC-5520	312	KJ-8223	300	LA-5179	431	LF-1270	285	LT-3156	93	ME-6800	496
HP-0718	167	HP-1216	168	HS-9057	357	KC-5522	313	KJ-8224	300	LA-5181	437	LF-1272	285	LT-3161	95	MF-1080	17
HP-0720	167	HP-1217	168			KC-5523	304	KJ-8225	300	LA-5187	430	LF-1274	285	LT-3165	95	MF-1082	17
HP-0724	167	HP-1218	167			KC-5525	308	KJ-8226	300	LA-5188	431	LF-1276	285	LT-3172	94	MF-1084	17
HP-0727	167	HP-1219	167	K		KC-5526	305	KJ-8227	300	LA-5193	431	LF-1278	285	LT-3181	95	MF-1086	17
HP-0732	167	HP-1220	167	KA-1119	313	KC-5528	306	KJ-8228	300	LA-5197	431	LF-1280	286	LT-3182	95	MF-1091	17
HP-0736	167	HP-1221	167	KA-1683	307	KC-5529	311	KJ-8229	300	LA-5207	437	LF-1284	286	LT-3195	94	MG-4506	447
HP-0740	167	HP-1222	167	KA-1732	311	KC-5530	310	KJ-8230	300	LA-5209	437	LF-1286	286	LT-3200	99	MG-4508	447
HP-0744	167	HP-1223	167	KA-1778	304	KC-5531	309	KJ-8231	300	LA-5215	437	LF-1290	286	LT-3202	99	MG-4509	447
HP-0745	167	HP-1224	167	KA-1809	310	KC-5532	307	KJ-8232	300	LA-5217	437	LF-1292	286	LT-3204	99, 494	MG-4550	39
HP-0746	167	HP-1225	167	KC-5150	309	KC-5533	311	KJ-8233	300	LA-5218	437	LF-1294	286	LT-3206	93	MG-4552	39
HP-0747	167	HP-1226	166	KC-5152	309	KC-5534	305	KJ-8234	300	LA-5219	437	LF-1400	285	LT-3208	91, 494	MI-5102	36
HP-0748	167	HP-1227	167	KC-5159	309	KE-4711	310	KJ-8235	300	LA-5254	436	LF-1402	285	LT-3235	99	MI-5104	36
HP-0752	170	HP-1228	167	KC-5166	309	KG-9032	310	KJ-8236	300	LA-5255	436	LF-1510	286	LT-3251	98	MI-5106	36
HP-0754	170	HP-1229	167	KC-5172	310	KG-9068	312	KJ-8237	300	LA-5256	436	LF-1512	286	LT-3253	98	MI-5107	36
HP-0756	170	HP-1231	166	KC-5178	308	KG-9128	310	KJ-8238	300	LA-5258	436	LF-1514	286	LT-3255	98	MI-5108	36
HP-0760	170	HP-1232	168	KC-5191	312	KG-9138	311	KJ-8239	300	LA-5259	436	LF-1516	286	LT-3256	98	MI-5110	36
HP-0762	170	HP-1235	167	KC-5201	309	KG-9140	311	KJ-8502	297	LA-5280	433	LF-1518	286	LT-3257	98	MI-5112	36
HP-0764	170	HP-1237	167	KC-5225	306	KG-9142	304	KJ-8504	297	LA-5290	433	LF-1520	286	LT-3258	98	MI-5114	36
HP-0766	170	HP-1239	167	KC-5255	306	KG-9196	312	KJ-8750	300	LA-5306	436	LF-1522	286	LT-3259	98	MI-5116	36
HP-0770	170	HP-1244	168	KC-5273	306	KG-9250	313	KJ-8901	294	LA-5317	418	LF-1524	286	LT-3270	98	MI-5127	35, 507
HP-0774	170	HP-1245	168	KC-5305	305, 309	KJ-6690	290	KJ-8906	293	LA-5324	418	LF-1526	286	LT-3275	98	MI-5131	35
HP-0776	170	HP-1246	168	KC-5307	307	KJ-6694	290	KJ-8908	289	LA-5325	418	LF-1528	286	LT-3281	97	MI-5703	37
HP-0782	170	HP-1247	168	KC-5317	306	KJ-8050	301	KJ-8916	293	LA-5326	436, 470	LF-1530	286	LT-3282	97	MI-5710	37
HP-0784	170	HP-1248	168	KC-5320	310	KJ-8051	301	KJ-8917	293	LA-5327	436, 470	LF-1532	286	LT-3284	97	MI-5712	37
HP-0786	170	HP-1249	168	KC-5321	310	KJ-8052	301	KJ-8918	293	LA-5328	436, 470	LF-1534	286	LT-3285	97	MI-5720	38
HP-0795	168	HP-1250	148	KC-5323	307	KJ-8053	301	KJ-8919	294	LA-5332	418	LF-1536	286	LT-3287	97	MI-5722	38
HP-0796	168	HP-1253	166	KC-5327	312	KJ-8054	301	KJ-8926	290	LA-5334	418	LF-1538	286	LT-3288	97	MI-5724	38
HP-0800	167	HP-1254	166	KC-5337	306, 312	KJ-8055	301	KJ-8936	290	LA-5336	418	LF-1540	286	LT-3289	97	MI-5726	38
HP-0815	167	HP-1255	166	KC-5345	309	KJ-8056	301	KJ-8937	289	LA-5353	430	LF-1542	286	LT-3332	96	MI-5728	38
HP-0816	167	HP-1260	148	KC-5347	309	KJ-8057	301	KJ-8939	289	LA-5473	434	LF-1544	286			MM-1900	249
HP-0822	167	HP-1270	152	KC-5350	306, 310	KJ-8058	301	KJ-8957	294	LA-5475	434	LF-1546	286			MM-2002	248
HP-0825	167	HP-1272	152	KC-5354	306	KJ-8059	301	KJ-8960	289	LA-5476	434	LM-1612	221	M		MM-2004	248
HP-0830	167	HP-1280	273	KC-5355	306	KJ-8060	301	KJ-8961	289	LA-5558	435	LM-1614	221	MB-3514	55	MM-2005	248
HP-0832	167	HP-1330	166	KC-5366	307	KJ-8061	301	KJ-8965	289	LA-5568	441	LM-1616	221	MB-3518	52	MM-2006	247
HP-0834	113	HP-1332	166	KC-5372	309	KJ-8062	301	KJ-8966	290	LA-5570	441	LM-1618	221	MB-3522	52	MM-2007	248
HP-0860	170	HP-1350	147	KC-5373	306	KJ-8063	301	KJ-8967	289	LA-5572	441	LM-1622	221	MB-3527	52	MM-2008	248
HP-0862	170	HP-1600	169	KC-5375	306, 313	KJ-8064	301	KJ-8968	293	LA-5573	442	LM-1624	213	MB-3549	55	MM-2011	248
HP-0864	170	HP-1602	169	KC-5377	307	KJ-8065	301	KJ-8970	295	LA-5575	442	LM-1626	221	MB-3551	55	MM-2012	248
HP-0866	170	HP-1604	169	KC-5378	306	KJ-8066	301	KJ-8972	295	LA-5576	442	LM-1628	221	MB-3561	55	MM-2013	248
HP-0872	170	HP-1606	169	KC-5381	307	KJ-8067	301	KJ-8974	294	LA-5577	442	LM-1652	221	MB-3563	55	MM-2014	248
HP-0900	170	HP-1801	167	KC-5383	306	KJ-8068	301	KJ-8976	294	LA-5578	442	LM-3880	96	MB-3581	56	MM-2015	248
HP-0901	170	HP-1804	167	KC-5384	306	KJ-8069	301	KJ-8978	295	LA-5579	440	LO-1230	285	MB-3605	364	MM-2017	247
HP-0904	170	HP-1807	167	KC-5387	306	KJ-8070	301	KJ-8980	295	LA-5580	442	LO-1234	285	MB-3607	54	MM-2018	247
HP-0907	170	HP-1810	167	KC-5388	308	KJ-8071	301	KJ-8982	295	LA-5582	442	LO-1238	285	MB-3609	53	MM-2520	249
HP-0920	170	HP-2000	166	KC-5389													

MP-3146	15	MP-3573	494	NA-1032	345	PA-0629	145	PA-3679	141	PM-0648	143	PP-0417	135	PP-1013	138	PP-2098	456
MP-3147	15	MP-3575	494	NA-1034	345	PA-0630	145	PA-3680	138	PM-0808	146	PP-0425	206	PP-1014	138	PP-2099	456
MP-3150	31	MP-3578	359	NA-1040	345	PA-0631	145	PA-3682	138	PM-0810	146	PP-0426	135	PP-1016	138	PP-2110	453
MP-3152	31	MP-3616	457	NA-1060	345	PA-0632	145	PA-3684	138	PM-0812	146	PP-0427	135	PP-1020	138	PP-2112	453
MP-3154	31	MP-3618	457	NA-1066	182	PA-0633	141	PA-3686	138	PM-0828	146	PP-0434	135	PP-1023	138	PP-2114	453
MP-3155	31	MP-3619	457	NA-1067	182	PA-0635	145	PA-3689	87, 137	PM-0830	146	PP-0435	135	PP-1040	137	PP-2116	453
MP-3156	31	MP-3660	359	NA-1070	224, 343	PA-0681	143	PA-3696	206	PM-0833	146	PP-0436	135	PP-1052	137	PP-2120	457
MP-3157	31	MP-3663	360	NA-1200	183	PA-0875	394	PA-3700	155	PM-0847	146	PP-0437	135	PP-1058	137	PP-2136	456
MP-3158	31	MP-3665	359	NA-1202	183	PA-0876	394	PA-3701	155	PM-0848	146	PP-0503	155	PP-1080	137	PP-2138	360
MP-3159	31	MP-3667	360	NA-1410	345	PA-0878	140	PA-3702	155	PM-0850	146	PP-0504	155	PP-1090	137	PP-2142	463
MP-3190	31	MP-3670	360	NA-1420	48	PA-0882	394	PA-3704	155	PM-0852	146	PP-0505	155	PP-1091	137	PP-2144	456
MP-3192	31	MP-3671	359, 502	NA-1500	184	PA-0896	90, 394	PA-3706	155	PM-0854	146	PP-0506	155	PP-1100	148	PP-2145	464
MP-3195	31	MP-3672	360	NA-1504	113, 182	PA-0897	394	PA-3707	155	PM-0855	146	PP-0507	155	PP-1106	148	PP-2146	464
MP-3196	31	MP-3675	464, 502	NA-1510	184	PA-0898	394	PA-3711	155, 424	PM-0857	146	PP-0508	155	PP-1110	148	PP-2148	453
MP-3197	31	MP-3676	359, 502	NA-1518	184	PA-0899	394	PA-3713	155, 424	PM-0859	146	PP-0509	155	PP-1112	148	PP-2149	453
MP-3209	314	MP-3678	502	NA-1522	184	PA-0900	394	PA-3715	143, 424	PM-0868	146	PP-0510	155	PP-1114	148	PP-2150	453
MP-3241	16	MP-3680	360	NA-2830	184	PA-0901	394	PA-3716	143	PM-1034	138	PP-0511	155	PP-1116	148	PP-2151	456
MP-3242	16	MP-3684	359	NA-2832	184	PA-0904	384, 394	PA-3717	130	PM-1441	144, 383	PP-0512	155	PP-1118	148	PP-4000	27
MP-3243	16	MP-3686	360	NA-2834	184	PA-0906	384, 394	PA-3718	130	PM-1442	144, 383	PP-0513	155	PP-1122	148	PP-4001	27
MP-3246	16	MP-3690	360	NC-4254	343	PA-0908	394	PA-3800	138	PM-4015	28	PP-0514	155	PP-1126	148	PP-4003	28
MP-3248	16	MP-3720	44	NM-2010	250	PA-0915	394	PA-3802	138	PM-4016	28	PP-0515	155	PP-1128	148	PP-4004	28
MP-3249	16	MP-3722	44	NM-2011	250	PA-0917	394	PB-8815	342	PM-4430	153, 452	PP-0531	155	PP-1132	148	PP-4005	28
MP-3252	31	MP-3725	44	NM-2012	250	PA-0921	394	PB-8816	342	PM-4432	153, 452	PP-0532	155	PP-1134	148	PP-4006	27
MP-3254	31	MP-3731	45	NM-2013	250	PA-0928	393	PB-8817	342	PM-4434	153, 452	PP-0542	156	PP-1138	148	PP-4007	28
MP-3256	31	MP-3735	45	NM-2014	250	PA-0929	393	PB-8819	342	PM-4436	153, 451	PP-0544	156	PP-1140	148	PP-4009	28
MP-3258	31	MP-3736	45	NM-2018	250	PA-0935	393	PB-8820	342	PM-4438	153, 451	PP-0590	145	PP-1142	148	PP-4012	28
MP-3280	16	MP-3739	45	NM-2790	250	PA-0937	393	PB-8832	342	PM-4439	153, 451	PP-0600	141	PP-1148	148	PP-4020	24
MP-3282	16	MP-3800	33	NM-2800	183	PA-2038	504	PB-8850	342	PP-0100	132	PP-0601	142	PP-1150	148	PP-4023	24
MP-3285	30	MP-3802	33	NM-2801	183	PA-2048	504	PH-9200	60	PP-0101	132	PP-0602	141	PP-1154	148	PP-4024	24
MP-3286	30	MP-3840	34	NM-2802	183	PA-2061	477	PH-9202	60	PP-0103	132	PP-0604	141	PP-1164	148	PP-4025	24
MP-3287	30	MP-3842	34	NM-2803	183	PA-2062	477	PH-9203	60	PP-0104	132	PP-0606	141	PP-1216	146	PP-4026	24
MP-3288	30	MP-5205	407	NM-2804	183	PA-2063	477	PH-9204	60	PP-0114	132	PP-0607	141	PP-1226	146	PP-4027	24
MP-3289	30	MP-5207	407	NM-2806	183	PA-2064	477	PH-9205	61	PP-0116	132	PP-0608	141	PP-1430	143, 383	PP-4028	24
MP-3290	30	MP-5224	407	NM-2807	183	PA-2065	477	PH-9206	61	PP-0130	132	PP-0631	145	PP-1431	143, 383	PP-4029	25
MP-3291	30	MS-4000	287	NM-2810	183	PA-2066	477	PH-9207	61	PP-0131	132	PP-0632	145	PP-1432	143, 383	PP-4031	25
MP-3292	30	MS-4001	287	NM-2812	183	PA-3500	133	PH-9209	60	PP-0132	132	PP-0633	145	PP-1433	143, 383	PP-4032	22
MP-3294	30	MS-4003	28, 287	NM-2813	183	PA-3502	132	PH-9210	60	PP-0134	132	PP-0637	142	PP-1434	144, 383	PP-4035	22
MP-3295	30	MS-4007	22	NM-2814	183	PA-3503	133	PH-9212	60	PP-0135	132	PP-0638	142	PP-1435	144, 383	PP-4036	22
MP-3296	30	MS-4009	22, 363	NM-2815	183	PA-3504	132	PH-9216	60	PP-0136	132	PP-0639	142	PP-1436	144, 383	PP-4040	24
MP-3297	30	MS-4013	24	NM-2817	184, 348	PA-3506	133	PH-9218	60	PP-0138	132	PP-0640	141	PP-1437	144, 383	PP-4041	25
MP-3298	30	MS-4015	22	NM-2818	184, 348	PA-3508	131	PH-9220	60	PP-0150	133	PP-0641	141	PP-1438	144, 383	PP-4042	25
MP-3299	30	MS-4033	21	NM-2821	184	PA-3510	131	PH-9221	61	PP-0151	133	PP-0647	143	PP-1439	144, 383	PP-4043	24
MP-3300	30	MS-4039	18	NM-2823	184	PA-3530	134	PH-9222	60	PP-0152	133	PP-0648	142	PP-1447	144, 383	PP-4044	25
MP-3301	30	MS-4040	20	NM-2826	183	PA-3532	132	PH-9226	60	PP-0154	133	PP-0649	143	PP-1453	383	PP-4045	25
MP-3302	30	MS-4043	18	NM-2828	91, 184	PA-3534	134	PH-9230	60	PP-0156	133	PP-0650	143	PP-1455	383	PP-4046	25
MP-3308	16	MS-4044	19, 449	NM-2831	166, 345	PA-3536	133	PH-9232	60	PP-0157	134	PP-0651	143	PP-1910	138	PP-4047	25
MP-3310	15	MS-4045	20	NM-2832	184	PA-3560	131	PH-9233	60	PP-0158	134	PP-0652	143	PP-1912	138	PP-4048	25
MP-3312	15	MS-4047	19, 449	NM-2834	184	PA-3562	131	PH-9234	60	PP-0159	134	PP-0655	143	PP-1916	138	PP-4049	25
MP-3314	15	MS-4048	19, 449	NM-2836	184	PA-3564	131	PH-9235	60	PP-0170	133	PP-0657	143	PP-1918	138	PP-4050	24
MP-3316	15	MS-4051	20	NM-2838	184	PA-3566	131	PH-9237	60	PP-0174	133	PP-0664	142	PP-1970	454	PP-4300	156
MP-3318	15	MS-4053	20	NM-2856	183	PA-3570	131	PH-9238	62	PP-0175	133	PP-0665	142	PP-1980	15	PP-4302	156
MP-3321	406	MS-4055	20	NM-2860	183	PA-3574	90	PH-9239	60	PP-0176	134	PP-0667	142	PP-1981	67	PP-5102	41
MP-3326	406	MS-4057	20	NM-2862	183	PA-3575	90	PH-9260	60	PP-0177	133	PP-0669	143	PP-1982	494	PP-5106	41
MP-3329	406	MS-4061	20	NM-2870	184, 344	PA-3580	133	PH-9261	60	PP-0178	133	PP-0671	142	PP-1984	494	PS-0010	264
MP-3332	406	MS-4063	20	NP-4260	343	PA-3581	133	PH-9264	60	PP-0179	134	PP-0672	142	PP-1985	502	PS-0105	132
MP-3334	406	MS-4067	362	NS-1434	345	PA-3582	133	PH-9268	60	PP-0205	130	PP-0675	143	PP-1986	456, 494	PS-0107	132
MP-3340	406	MS-4068	362	NS-1436	345	PA-3583	133	PH-9270	60	PP-0230	130	PP-0677	142	PP-1992	456	PS-0109	132
MP-3350	424, 501	MS-4082	22	NS-3002	180	PA-3584	133	PH-9280	60	PP-0231	130	PP-0678	143	PP-1993	456	PS-0110	132
MP-3352	501	MS-4083	20	NS-3005	180	PA-3585	133	PH-9281	61	PP-0232	130	PP-0679	143	PP-1995	455	PS-0120	133
MP-3354	501	MS-4084	22	NS-3008	180	PA-3586	133	PH-9282	60	PP-0233	130	PP-0680	146, 376	PP-1996	359, 456	PS-0122	133
MP-3360	69	MS-4086	19	NS-3010	180	PA-3588	134	PH-9283	61	PP-0234	130	PP-0682	146, 376	PP-1997	456	PS-0123	133
MP-3362	69	MS-4094	407	NS-3013	180	PA-3590	134	PH-9285	60	PP-0235	130	PP-0688	143	PP-1998	455	PS-0126	133
MP-3371	32	MS-4097	19	NS-3015	180	PA-3591	134	PH-9288	60	PP-0236	130	PP-0689	143	PP-2000	455	PS-0132	133
MP-3372	32	MS-4100	20	NS-3020	180	PA-3592	134	PI-6450	264	PP-0237	130	PP-0694	146	PP-2001	455	PS-0133	133
MP-3373	32	MS-4102	21	NS-3026	180	PA-3594	133	PI-6452	264	PP-0238	130	PP-0695	146	PP-2005	456	PS-0134	133
MP-3374	32	MS-6113	23	NS-3027	180	PA-3597	131	PI-6454	264	PP-0239	130	PP-0702	141	PP-2006	456	PS-0139	133
MP-3375	32	MS-6114	23	NS-3028	180	PA-3598	131	PI-6456	264	PP-0240	130	PP-0704	141	PP-2007	456	PS-0160	134
MP-3376	32	MS-6115	24	NS-3030	345	PA-3599	131	PI-6458	264	PP-0242	130	PP-0708	141	PP-2008	456	PS-0162	134
MP-3377	32	MS-6122	23	NS-3033	345	PA-3640	73	PI-6460	264	PP-0243	130	PP-0709	142	PP-2010	140	PS-0166	134
MP-3378	32	MS-6124	23	NS-3036	180	PA-3642	73	PI-6462	264								

PS-0281	90	PS-0771	139	PS-2074	449	PT-3008	135	PT-4625	151	QC-3844	423	QM-1670	191	QP-5582	462	RC-5496	282
PS-0291	90	PS-0773	139	PS-2080	270	PT-3012	136	PT-4626	151	QC-3846	422	QM-1671	191	QP-5583	462	RC-5498	282
PS-0295	90	PS-0774	139	PS-2082	270	PT-3020	136	PT-4627	151	QC-3848	422	QM-1676	207	QP-5584	463	RC-5499	282
PS-0296	90	PS-0775	139	PS-2092	454	PT-3021	136	PT-4628	151	QC-3860	422	QM-1677	207	QP-5585	209	RD-3480	278
PS-0297	90	PS-0777	139	PS-2096	454	PT-4402	153, 451	PT-4630	152	QC-8027	427	QM-1678	207	QP-5586	209	RD-3485	278
PS-0340	140	PS-0779	139	PS-2120	360	PT-4403	153, 451	PT-4631	152	QC-8033	517	QM-1679	207	QP-5588	209	RE-6020	283
PS-0348	140	PS-0782	145	PS-2122	360	PT-4405	153, 451	PT-4633	151	QC-8034	517	QM-3505	223	QP-5589	209, 463	RE-6032	283
PS-0350	140	PS-0785	155	PS-2126	455	PT-4406	153, 451	PT-4637	150	QC-8035	517	QM-3511	223	QP-6013	189	RE-6034	284
PS-0352	140	PS-0789	132	PS-2128	455	PT-4407	153, 451	PT-4640	149	QC-8037	517	QM-3515	223	QP-6014	189	RE-6042	283
PS-0354	140	PS-0794	139	PS-2806	454	PT-4416	153, 451	PT-4641	149	QC-8038	517	QM-3531	223	QT-2304	193	RE-6044	284
PS-0355	140	PS-0795	139	PS-2808	454	PT-4420	153, 450	PT-4643	149	QC-8042	427	QM-3532	223	QV-3047	416	RE-6045	283
PS-0358	140	PS-0796	139	PS-2810	454	PT-4422	153, 450	PT-4650	149	QC-8044	427	QM-3534	223	QV-3130	414	RE-6058	283
PS-0359	140	PS-0797	139	PS-4002	28	PT-4424	153, 450	PT-4651	149	QC-8045	427	QM-3537	223	QV-3132	414	RE-6060	283
PS-0368	140	PS-0798	139	PS-4004	27	PT-4425	153, 450	PT-4653	149	QC-8046	427	QM-3539	223	QV-3138	412	RE-6062	284
PS-0372	140	PS-0799	139	PS-4006	28	PT-4427	153, 450	PT-4700	151	QC-8048	427	QM-3544	224	QV-3143	417	RE-6066	283
PS-0376	140	PS-0804	146	PS-4008	27	PT-4428	154, 452	PT-4701	151	QC-8050	521	QM-3546	224	QV-3148	413	RE-6070	283
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PS-0422	135	PS-0844	146	PS-4057	26	PT-4436	153, 451	PT-4710	151	QC-8060	521	QM-3752	508	QV-3852	465	RE-6092	283
PS-0423	135	PS-0845	146	PS-4060	26	PT-4438	154, 452	PT-4714	151	QC-8062	521	QM-3797	467	QV-3854	465	RE-6095	283
PS-0424	135	PS-0846	146	PS-4062	26	PT-4439	154, 452	PT-4715	151	QC-8066	521	QM-3815	503	QV-3856	466	RE-6100	283
PS-0441	131	PS-0864	146	PS-4063	26	PT-4440	154, 450	PT-4717	151	QC-8068	368	QM-3816	503	QV-3858	466	RE-6110	283
PS-0442	131	PS-0916	145	PS-4064	144	PT-4442	154, 450	PT-4718	151	QC-8075	520	QM-3817	503	QV-3860	466	RE-6122	283
PS-0443	131	PS-0920	145	PS-4065	26	PT-4444	154, 450	PT-4721	151	QC-8076	520	QM-3819	503	QV-3870	466	RE-6125	284
PS-0444	131	PS-0922	145	PS-4066	26	PT-4446	154, 450	PT-4722	151	QC-8077	520	QM-3852	467	QV-8126	416	RE-6130	283
PS-0445	131	PS-0924	145	PS-4069	26	PT-4447	154, 450	PT-4723	151	QC-8078	521	QM-3854	467	QV-8128	416	RE-6140	283
PS-0446	131	PS-0926	145	PS-4071	26, 363	PT-4448	154, 450	PT-4724	151	QC-8079	520	QM-3856	468	QV-9000	413	RE-6150	283
PS-0480	90	PS-0928	145	PS-4072	65	PT-4449	154, 450	PT-4725	151	QC-8080	521	QM-3857	468	QV-9002	414	RE-6156	284
PS-0489	131	PS-0930	145	PS-4075	27	PT-4450	156	PT-4726	151	QC-8081	520	QM-3872	508	QV-9004	414	RE-6157	283
PS-0490	131	PS-0942	145	PS-4077	26	PT-4451	455	PT-4727	151	QC-8082	521	QM-3874	508	QV-9006	420	RE-6158	283
PS-0491	131	PS-0944	145	PS-4092	27	PT-4452	156	PT-4728	151	QC-8083	520	QM-6323	189, 514	QV-9008	420	RE-6160	283
PS-0492	131	PS-0946	145	PS-4094	27	PT-4453	148	PT-4737	150	QC-8086	521	QM-6325	515	QV-9010	415	RE-6180	283
PS-0493	131	PS-0984	148	PS-4095	27	PT-4454	156	PT-4800	152	QC-8088	521	QM-7201	519	QV-9012	415	RE-6188	283
PS-0494	131	PS-0985	148	PS-4097	27	PT-4456	156	PT-4802	152	QC-8090	521	QM-7209	189, 514	QV-9014	420	RE-6190	283
PS-0495	131	PS-0986	148	PS-4100	29	PT-4458	156	PT-4807	152	QC-8096	521	QM-7215	188	QV-9016	420	RE-6194	283
PS-0496	131	PS-0987	148	PS-4102	29	PT-4460	154, 452	PT-4809	152	QC-8098	521	QM-7216	189	QV-9018	424	RE-6195	283
PS-0497	131	PS-0988	148	PS-4103	29	PT-4462	452	PT-4810	152	QC-8099	521	QM-7218	188	QV-9020	424	RE-6210	283
PS-0498	131	PS-0989	148	PS-4104	29	PT-4464	154, 452	PT-4814	152	QC-8631	426	QM-7221	188			RE-6220	283
PS-0499	131	PS-0990	148	PS-4105	29	PT-4466	154, 452	PT-4818	152	QC-8637	419	QM-7226	188			RE-6230	283
PS-0516	155	PS-1001	156	PS-4106	29	PT-4470	154, 452	PT-4822	152	QC-8639	419	QM-7232	192			RE-6236	283
PS-0518	155	PS-1003	156	PS-4107	29	PT-4472	154, 452	PT-4823	152	QC-8641	419	QM-7258	192	RC-5300	282	RE-6238	283
PS-0519	155	PS-1005	156	PS-4108	29	PT-4474	154, 452	PT-4825	152	QC-8643	419	QM-7259	192	RC-5301	282	RE-6240	283
PS-0520	155	PS-1007	156	PS-4110	27	PT-4480	153, 451	PT-4827	152	QC-8650	426	QM-7264	192	RC-5302	282	RE-6241	283
PS-0522	155	PS-1009	156	PS-4112	27	PT-4482	153, 451	PT-4914	152	QC-8652	426	QM-7268	519	RC-5303	282	RE-6243	283
PS-0524	155	PS-1014	138	PS-4113	27	PT-4484	153, 451	PT-4916	152	QC-8653	419	QM-7277	516	RC-5304	282	RE-6244	283
PS-0526	155	PS-1015	138	PS-4115	29	PT-4500	151	PT-4930	152	QC-8654	419	QM-7288	515	RC-5305	282	RE-6245	283
PS-0528	155	PS-1017	138	PS-4117	29	PT-4501	151	PT-4932	152	QC-8660	426	QM-7289	515	RC-5306	282	RE-6250	282
PS-0531	155	PS-1018	138	PS-4120	29	PT-4502	151	PT-4934	152	QC-8666	420	QM-7304	519	RC-5307	282	RE-6300	284
PS-0532	155	PS-1022	138	PS-4122	18	PT-4503	151	PT-4935	152	QC-8668	420	QM-7305	519	RC-5308	282	RE-6302	284
PS-0534	155	PS-1024	138	PS-4124	29	PT-4507	151	PT-4936	152	QC-8670	421	QM-7308	519	RC-5309	282	RE-6304	284
PS-0536	155	PS-1042	137	PS-4125	18	PT-4509	151	PT-4937	152	QC-8672	420	QM-7309	519	RC-5310	282	RE-6306	284
PS-0540	155	PS-1054	137	PS-4130	18	PT-4510	151	PT-4938	152	QC-8674	420	QM-7310	514	RC-5311	282	RE-6308	284
PS-0541	156	PS-1062	137	PS-4134	18	PT-4511	151	PT-4939	152	QC-8676	421	QM-7312	514	RC-5312	282	RE-6310	284
PS-0543	156	PS-1069	138	PS-4140	28	PT-4512	151	PT-4940	152	QC-8678	421	QM-7314	189	RC-5313	282	RE-6312	284
PS-0545	156	PS-1082	137	PS-4142	28	PT-4513	151	PT-5000	144	QC-8680	421	QM-7316	514	RC-5314	282	RE-6314	284
PS-0547	156	PS-1084	137	PS-4144	28	PT-4514	151			QC-8702	208	QM-8046	467	RC-5315	282	RE-6316	284
PS-0551	139	PS-1092	137	PS-4152	18	PT-4515	151			QC-8710	208	QM-8047	467	RC-5316	282	RE-6318	284
PS-0552	139	PS-1094	137	PS-4153	18	PT-4516	151			QC-8712	208	QP-2002	24, 449	RC-5317	282	RE-6320	284
PS-0553	139	PS-1210	146	PS-4154	18	PT-4517	151			QM-1020	203	QP-2004	24	RC-5318	282	RE-6322	284
PS-0554	139	PS-1220	146	PS-4155	18	PT-4518	151			QM-1282	205	QP-2212	463	RC-5319	282	RE-6324	284
PS-0592	145	PS-1410	144	PS-4157	18	PT-4520	152			QM-1283	205	QP-2220	463	RC-5320	282	RE-6326	284
PS-0605	141	PS-1451	383	PS-4160	246	PT-4521	152			QM-1284	205	QP-2230	430	RC-5321	282	RE-6328	284
PS-0610	141	PS-1470	143	PS-4182	19, 449	PT-4522	151			QM-1321	198	QP-2252	59	RC-5322	282	RE-6330	284
PS-0611	141	PS-1474	143	PS-4186	19, 449	PT-4523	151			QC-3122	420, 423	QM-1323	198	RC-5323	282	RE-6332	284
PS-0612	141	PS-1478	144	PS-4194	18	PT-4524	151			QC-3131	420, 423	QM-1444	200	QC-2258	463	RC-5324	282
PS-0613	141	PS-1924	138	PS-4196	18	PT-4525	151			QM-1448	463	QP-2261	54	RC-5325	282	RE-6336	284
PS-0614	141	PS-1926	138	PS-4198	18	PT-4526	151			QM-1493	203	QP-2263					

RG-5110	281	RN-3444	268	RR-0546	277	RR-0660	277	RR-2838	277	RT-4316	278	RZ-6640	282	SB-2426	63	SF-2120	253
RG-5115	281	RN-3460	254	RR-0547	277	RR-0680	278	RR-2840	277	RT-4318	278	RZ-6642	282	SB-2427	63	SF-2121	253
RG-5120	281	RN-3462	254	RR-0548	277	RR-0700	278	RR-2842	277	RT-4320	278	RZ-6645	282	SB-2467	57	SF-2122	253
RG-5125	281	RN-3464	254	RR-0549	277	RR-1500	277	RR-2844	277	RT-4324	278	RZ-6648	282	SB-2468	58	SF-2124	253
RG-5130	281	RN-3466	254	RR-0550	277	RR-1502	277	RR-2846	277	RT-4350	278	RZ-6650	282	SB-2480	46	SF-2126	459
RG-5135	281	RN-3468	254	RR-0551	277	RR-1504	277	RR-2848	277	RT-4352	278	RZ-6655	282	SB-2482	46	SF-2127	459
RG-5140	281	RN-3470	254	RR-0552	277	RR-1506	277	RR-2850	277	RT-4354	278	RZ-6657	282	SB-2484	46	SF-2128	459
RG-5145	281	RP-3500	169, 279	RR-0553	277	RR-1508	277	RR-2854	277	RT-4356	278	RZ-6658	282	SB-2485	46	SF-2130	459
RG-5150	281	RP-3502	279	RR-0554	277	RR-1510	277	RR-2858	277	RT-4358	278	RZ-6665	282	SB-2486	46	SF-2132	459
RG-5153	281	RP-3504	279	RR-0555	277	RR-1512	277	RR-2860	277	RT-4360	278	RZ-6670	282	SB-2487	46	SF-2134	459
RG-5165	281	RP-3508	279	RR-0556	277	RR-1514	277	RR-2862	277	RT-4362	278			SB-2489	46	SF-2136	459
RG-5166	281	RP-3510	279	RR-0557	277	RR-1516	277	RR-2864	277	RT-4364	278			SB-2490	46	SF-2137	459
RG-5168	281	RP-3514	279	RR-0558	277	RR-1518	277	RR-2868	277	RT-4366	278	S		SB-2495	46	SF-2138	459
RG-5169	281	RP-3516	279	RR-0559	277	RR-1520	277	RR-2870	277	RT-4368	278	SB-1611	58	SB-2496	46	SF-2139	459
RG-5170	281	RP-3518	279	RR-0560	277	RR-1522	277	RR-3206	277	RT-4370	278	SB-1617	57	SB-2497	46	SF-2141	459
RG-5172	281	RP-3520	279	RR-0561	277	RR-1524	277	RR-3208	277	RT-4372	278	SB-1622	62	SB-2498	46	SF-2142	459
RG-5175	281	RP-3522	279	RR-0562	277	RR-1650	277	RR-3214	277	RT-4600	278	SB-1634	59	SB-2501	62	SF-2143	459
RG-5180	281	RP-3524	279	RR-0563	277	RR-1652	277	RR-3220	277	RT-4602	278	SB-1645	59	SB-2502	62	SF-2146	459
RG-5199	282	RP-3604	279	RR-0564	277	RR-1654	277	RR-3230	277	RT-4604	278	SB-1646	59	SB-2504	62	SF-2148	253
RG-5201	281	RP-3608	279	RR-0565	277	RR-1656	277	RR-3232	277	RT-4608	278	SB-1648	59	SB-2508	62	SF-2152	253
RG-5202	281	RP-3610	279	RR-0566	277	RR-1658	277	RR-3234	277	RT-4610	278	SB-1651	59	SB-2510	62	SF-2153	253
RG-5203	281	RP-3614	279	RR-0567	277	RR-1660	277	RR-3236	277	RT-4612	278	SB-1653	59	SB-2512	62	SF-2154	253
RG-5204	281	RP-3616	279	RR-0568	277	RR-1662	277	RR-3238	277	RT-4614	278	SB-1654	59	SB-2513	62	SF-2155	253
RG-5205	281	RP-3618	279	RR-0569	277	RR-1664	277	RR-3240	277	RT-4616	278	SB-1680	47	SB-2514	62	SF-2156	253
RG-5210	281	RP-3620	279	RR-0570	277	RR-1666	277	RR-3242	277	RT-4618	278	SB-1682	47	SB-2516	62	SF-2157	253
RG-5222	281	RP-3622	279	RR-0571	277	RR-1668	277	RR-3244	277	RT-4620	278	SB-1684	47	SB-2520	62	SF-2158	253
RG-5230	281	RP-3624	279	RR-0572	277	RR-1670	277	RR-3246	277	RT-4622	278	SB-1695	47	SB-2522	62	SF-2159	253
RG-5232	281	RP-3706	279	RR-0573	277	RR-1672	277	RR-3248	277	RT-4640	278	SB-1698	47	SB-2523	62	SF-2160	253
RG-5234	281	RP-3708	279	RR-0574	277	RR-1680	278	RR-3250	277	RT-4642	278	SB-1699	47	SB-2524	62	SF-2161	253
RG-5236	281	RP-3710	279	RR-0575	277	RR-1697	278	RR-3252	277	RT-4644	278	SB-1706	57	SB-2525	62	SF-2162	253
RG-5238	281	RP-3712	279	RR-0576	277	RR-2000	278	RR-3254	277	RT-4646	278	SB-1708	57	SB-2526	62	SF-2163	253
RG-5240	281	RP-3756	279	RR-0577	277	RR-2502	277	RR-3256	277	RT-4648	278	SB-1723	57	SB-2527	62	SF-2164	253
RG-5247	281	RP-3760	279	RR-0578	277	RR-2504	277	RR-3258	277	RT-4650	278	SB-1724	57	SB-2529	62	SF-2166	253
RG-5248	281	RP-3762	279	RR-0579	277	RR-2506	277	RR-3260	277	RT-4652	278	SB-1728	57	SB-2530	62	SF-2167	253
RL-6402	284	RP-3975	279	RR-0580	277	RR-2508	277	RR-3262	277	RT-4654	278	SB-1734	57	SB-2532	62	SF-2168	253
RL-6406	284	RP-7500	169, 279	RR-0581	277	RR-2510	277	RR-3264	277	RT-4656	278	SB-1736	57	SB-2534	62	SF-2169	253
RL-6408	284	RP-7504	279	RR-0582	277	RR-2512	277	RR-3266	277	RT-4658	278	SB-1737	57	SB-2536	62	SF-2170	253
RL-6410	284	RP-7508	279	RR-0583	277	RR-2514	277	RR-3268	277	RU-6600	283	SB-1738	57	SB-2542	62	SF-2172	253
RL-6412	284	RP-7510	279	RR-0584	277	RR-2516	277	RR-3270	277	RU-6602	283	SB-1739	57	SB-2900	63	SF-2173	253
RL-6414	284	RP-7516	279	RR-0585	277	RR-2518	277	RR-3272	277	RU-6604	283	SB-1744	57	SB-2902	63	SF-2174	253
RL-6418	284	RP-7518	279	RR-0586	277	RR-2520	277	RR-3274	277	RU-6606	283	SB-1751	58	SB-2904	63	SF-2175	253
RL-6420	284	RP-7524	279	RR-0587	277	RR-2522	277	RR-3276	277	RU-6608	283	SB-1756	58	SB-2905	63	SF-2176	253
RL-6422	284	RP-7604	279	RR-0588	277	RR-2524	277	RR-3278	277	RU-6700	283	SB-1757	58	SB-2906	63	SF-2177	253
RL-6424	284	RP-7610	279	RR-0589	277	RR-2526	277	RR-3280	277	RU-6705	283	SB-1760	62	SB-2908	63	SF-2178	253
RL-6428	284	RP-7616	279	RR-0590	277	RR-2528	277	RR-3282	277	RU-6708	284	SB-1762	62	SB-2910	63	SF-2179	253
RL-6430	284	RP-7708	279	RR-0591	277	RR-2530	277	RR-3284	277	RU-6709	284	SB-1770	64	SB-2912	63	SF-2182	253
RL-6432	284	RP-7712	279	RR-0592	277	RR-2532	277	RR-3286	277	RU-6710	284	SB-1771	64	SB-2914	63	SF-2184	253
RL-6434	284	RP-7756	279	RR-0593	277	RR-2534	277	RR-3288	277	RU-6712	284	SB-1774	64	SB-2916	63	SF-2186	253
RL-6436	284	RP-8504	279	RR-0594	277	RR-2536	277	RR-3290	277	RU-6720	284	SB-1775	64	SB-2930	57	SF-2188	253
RM-7010	281	RP-8510	279	RR-0595	277	RR-2538	277	RR-3292	277	RV-5714	281	SB-1800	47	SB-2931	57	SF-2189	253
RM-7012	281	RP-8516	279	RR-0596	277	RR-2540	277	RR-3294	277	RV-5716	281	SB-1802	47	SB-2932	57	SF-2190	253
RM-7015	281	RP-8518	279	RR-0597	277	RR-2542	277	RR-3296	277	RV-5718	281	SB-1822	47	SB-2933	57	SF-2192	253
RM-7022	281	RP-8524	279	RR-0598	277	RR-2544	277	RR-3298	277	RV-5720	281	SB-2300	58	SB-2936	57	SF-2194	253
RM-7027	281	RP-8610	279	RR-0599	277	RR-2546	277	RR-3302	277	RV-5722	281	SB-2301	58	SB-2938	57	SF-2196	253
RM-7033	281	RP-8616	279	RR-0600	277	RR-2548	277	RR-3306	277	RV-5728	286	SB-2305	58	SB-2940	62	SF-2198	253
RM-7039	281	RP-8706	279	RR-0601	277	RR-2550	277	RR-3310	277	RY-6802	282	SB-2307	58	SB-2942	62	SF-2200	253
RM-7047	281	RP-8710	279	RR-0602	277	RR-2552	277	RR-3312	277	RY-6804	282	SB-2308	58	SB-2944	62	SF-2201	253
RM-7055	281	RP-8712	279	RR-0603	277	RR-2554	277	RR-3340	277	RY-6805	282	SB-2309	58	SB-2946	62	SF-2202	253
RM-7065	281	RP-8756	279	RR-0604	277	RR-2556	277	RR-3344	277	RY-6806	282	SB-2313	58	SB-2950	62	SF-2204	253
RM-7070	281	RP-8760	279	RR-0605	277	RR-2558	277	RR-3346	277	RY-6808	282	SB-2314	58	SB-2970	63	SF-2206	253
RM-7075	281	QJ-5268	269	RR-0606	277	RR-2760	277	RR-3347	277	RY-6810	282	SB-2315	58	SB-2980	64	SF-2208	253
RM-7080	281	QJ-5271	269	RR-0607	277	RR-2762	277	RR-3348	277	RY-6816	282	SB-2317	58	SB-2982	64	SF-2210	253
RM-7085	281	QJ-5272	269	RR-0608	277	RR-2764	277	RR-3349	277	RY-6818	282	SB-2319	58	SF-0920	228	SF-2226	253
RM-7095	281	QJ-5274	269	RR-0609	277	RR-2766	277	RR-3350	277	RY-6820	282	SB-2320	63	SF-0922	228	SF-2227	205, 253
RM-7100	281	QJ-5275	269	RR-0610	277	RR-2768	277	RR-3351	277	RY-6825	282	SB-2321	63	SF-1909	459	SF-2228	253
RM-7105	281	QJ-5276	269	RR-0611	277	RR-2770	277	RR-3352	277	RY-6901	283	SB-2324	64	SF-1910	459	SF-2230	253
RM-7110	281	QJ-5277	269	RR-0612	277	RR-2772	277	RR-3353	277	RY-6902	283	SB-2328	63	SF-1912	459	SF-2231	253
RM-7115	281	QJ-5278	269	RR-0613	277	RR-2774	277	RR-3354	277	RY-6903	283	SB-2329	63	SF-1913	459	SF-2232	253
RM-7120	281	QJ-5279	269	RR-0614	277	RR-2776	277	RR-3355	277	RY-6904	283	SB-2331	63	SF-1914	459	SF-2233	253
RM-7125	281	QJ-5284	269	RR-0615	277	RR-2778	277	RR-3356	277	RY-6906	283	SB-2332	63	SF-1915	459	SF-2234	253
RM-7130	281	QJ-5285	269	RR-0616	277	RR-2780	277	RR-3357									

SF-2300	254	SL-2210	70	SL-3410	127	SP-0601	234	ST-0572	231	ST-3836	255	SZ-2030	252	TH-1743	211	TH-1997	225
SF-2315	254	SL-2211	70	SL-3411	475	SP-0602	234	ST-0574	232	ST-3915	491	SZ-2034	252	TH-1752	216	TH-1999	225
SF-2320	460	SL-2216	70	SL-3412	475	SP-0603	234	ST-0575	232	ST-3919	518	SZ-2036	252	TH-1754	216	TH-2000	211
SF-2321	460	SL-2225	70	SL-3414	475	SP-0604	234	ST-0576	232	ST-3921	518	SZ-2038	251	TH-1755	216	TH-2001	211
SF-2323	460	SL-2230	70	SL-3448	491	SP-0605	234	ST-0577	232	ST-3927	518	SZ-2039	251	TH-1757	212	TH-2002	211
SF-2324	460	SL-2231	70	SL-3450	127	SP-0606	234	ST-0578	232	ST-3930	66	SZ-2040	458	TH-1758	212	TH-2003	211
SF-2325	460	SL-2232	70	SL-3451	127	SP-0607	234	ST-0579	232	ST-3932	66	SZ-2042	458	TH-1760	216	TH-2004	211
SF-2326	460	SL-2234	70	SL-3452	491	SP-0608	234	ST-0580	232	ST-3933	66	SZ-2043	458	TH-1761	216	TH-2005	211
SF-2327	460	SL-2235	70	SL-3453	127	SP-0609	234	ST-0581	232	ST-3934	66	SZ-2044	458	TH-1762	220	TH-2006	211
SF-2330	460	SL-2300	68	SL-3454	127	SP-0610	234	ST-0582	232	ST-3936	66	SZ-2045	458	TH-1763	219	TH-2007	211
SF-2331	460	SL-2302	68	SL-3459	491	SP-0611	234	ST-0583	232	ST-3938	66	SZ-2046	458	TH-1764	219	TH-2008	211
SF-2333	460	SL-2330	68	SL-3460	491	SP-0612	234	ST-0584	232	ST-3942	492	SZ-2047	458	TH-1766	219	TH-2009	211
SF-2334	460	SL-2332	68	SL-3461	491	SP-0613	234	ST-0585	232	ST-3945	70	SZ-2049	458	TH-1768	212	TH-2010	211
SF-2335	460	SL-2334	68	SL-3469	126	SP-0614	234	ST-0586	232	ST-3946	66	SZ-2060	461	TH-1769	219	TH-2014	222
SF-2336	460	SL-2338	68	SL-3474	491	SP-0620	234	ST-0587	232	ST-3948	66	SZ-2065	251	TH-1770	220	TH-2127	221
SF-2337	460	SL-2339	68	SL-3476	491	SP-0621	234	ST-0590	232	ST-3950	492	SZ-2078	459	TH-1772	220	TH-2330	216
SF-2342	460	SL-2610	274	SL-3478	491	SP-0622	234	ST-0592	232	ST-3968	496	SZ-2081	460	TH-1775	217	TH-2332	215
SF-2344	460	SL-2612	274	SL-3480	491	SP-0656	229	ST-0594	231	SY-4004	241	SZ-2083	460	TH-1776	217	TH-2334	215
SF-2345	460	SL-2613	274	SL-3484	126	SP-0657	229	ST-3083	486	SY-4007	241	SZ-2085	460	TH-1780	217	TH-2336	216
SF-2346	460	SL-2615	274	SL-3490	475	SP-0700	230	ST-3102	516	SY-4008	241	SZ-2090	41	TH-1781	217	TH-2339	461
SF-2352	460	SL-2616	274	SL-3494	475	SP-0702	230	ST-3130	488	SY-4009	241	SZ-2092	41	TH-1783	217	TH-2500	219
SF-2354	460	SL-2617	274	SL-3495	475	SP-0704	229	ST-3131	489	SY-4016	460	SZ-2094	41	TH-1800	210	TH-2600	168
SF-2355	460	SL-2620	274	SL-3496	475	SP-0706	229	ST-3132	489	SY-4018	460			TH-1803	210	TL-4052	350
SF-2356	460	SL-2622	274	SL-3500	490	SP-0710	230	ST-3133	478	SY-4029	238			TH-1807	210	TL-4060	350
SF-4100	254, 460	SL-2625	274	SL-3501	490	SP-0711	230	ST-3136	486	SY-4030	238			TH-1810	287	TL-4062	350
SF-4102	254, 460	SL-2627	274	SL-3502	490	SP-0714	230	ST-3137	489	SY-4032	238	TD-2000	211	TH-1811	211	TL-4070	350
SF-4104	254, 460	SL-2630	274	SL-3503	490	SP-0716	229	ST-3146	22	SY-4036	238	TD-2010	220	TH-1812	215	TL-4072	350
SF-4106	254, 460	SL-2632	274	SL-3505	490	SP-0717	229	ST-3155	488	SY-4038	238	TD-2012	217	TH-1815	212	TL-4076	348
SF-4108	254, 460	SL-2633	274	SL-3506	490	SP-0718	229	ST-3156	488	SY-4040	241	TD-2021	218	TH-1816	264	TL-4077	348
SF-4150	42	SL-2635	65	SL-3507	490	SP-0720	234	ST-3158	488	SY-4041	241	TD-2022	213	TH-1817	212	TL-4079	348
SF-4151	42	SL-2636	65	SL-3508	490	SP-0721	234	ST-3181	22	SY-4044	241	TD-2023	213	TH-1818	264	TL-4100	348
SF-4152	42	SL-2640	274	SL-3509	126	SP-0722	234	ST-3193	491	SY-4045	242	TD-2026	213	TH-1820	212, 376	TL-4103	349
SF-4153	42	SL-2642	274	SL-3522	475	SP-0723	234	ST-3209	487	SY-4046	242	TD-2027	220	TH-1824	212	TL-4104	349
SF-4158	42	SL-2644	274	SL-3524	475	SP-0724	234	ST-3210	487	SY-4047	242	TD-2031	214	TH-1827	212	TL-4105	349
SF-4180	48	SL-2645	274	SL-3916	471	SP-0732	230	ST-3211	487	SY-4050	239	TD-2032	218	TH-1828	210	TL-4106	349
SF-4182	48	SL-2646	274	SL-3917	474	SP-0735	229	ST-3213	487	SY-4051	239	TD-2035	218	TH-1829	210	TL-4107	349
SF-4184	48	SL-2647	274	SL-3918	472	SP-0741	229	ST-3214	486	SY-4052	239	TD-2038	218	TH-1831	210	TL-4108	349
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SF-5022	459	SL-2652	65, 274	SL-3920	472	SP-0745	229	ST-3230	478	SY-4058	238	TD-2049	213, 463	TH-1833	210	TL-4110	350
SF-5026	459	SL-2654	65	SL-3921	472	SP-0747	229	ST-3231	478	SY-4059	238	TD-2052	222	TH-1834	210	TL-4111	349
SF-5028	459	SL-2656	65	SL-3922	472	SP-0748	234	ST-3254	481	SY-4060	239	TD-2055	213	TH-1838	217	TL-4112	350
SF-5030	459	SL-2658	65	SL-3923	474	SP-0749	229	ST-3257	482	SY-4061	238	TD-2060	213	TH-1841	212	TL-4113	349
SF-5034	459	SL-2659	65	SL-3925	378, 474	SP-0751	229	ST-3258	490	SY-4062	238	TD-2061	213	TH-1842	220	TL-4114	350
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SF-5072	459	SL-2673	65	SL-3930	471	SP-0757	229	ST-3267	496	SY-4066	238	TD-2065	213	TH-1846	210	TL-4117	349
SF-5074	459	SL-2674	65	SL-3931	471	SP-0758	229	ST-3270	482	SY-4067	238	TD-2069	218	TH-1847	210, 449	TL-4118	350
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SF-5080	459	SL-2681	65	SL-3935	471	SP-0764	230	ST-3273	482	SY-4070	242	TD-2082	192	TH-1850	180	TL-4121	349
SF-5082	459	SL-2683	65	SL-3936	472	SP-0766	230	ST-3277	487	SY-4072	239	TD-2089	220	TH-1851	176	TL-4122	350
SF-5084	459	SL-2684	65	SL-3937	471	SP-0770	235	ST-3278	470	SY-4073	242	TD-2105	218	TH-1856	180	TL-4124	351
SF-5085	459	SL-2685	65	SL-3938	471	SP-0773	230	ST-3295	470	SY-4074	242	TD-2106	218	TH-1857	180	TL-4126	351
SF-5115	459	SL-2690	65, 274	SL-3950	492	SP-0774	230	ST-3298	487	SY-4076	242	TD-2109	214	TH-1860	180	TL-4128	351
SF-5125	459	SL-2692	249	SL-3951	492	SP-0782	229	ST-3299	487	SY-4077	242	TD-2114	218	TH-1861	180	TL-4130	351
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SK-0802	226	SL-2695	65, 274	SL-3954	67	SP-0787	229	ST-3313	483	SY-4079	242, 474	TD-2116	214	TH-1863	180	TL-4134	351
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SK-0910	226	SL-2720	65	SL-3962	477	SP-0791	229	ST-3325	483	SY-4081	474	TD-2118	214	TH-1868	220	TL-4138	351
SK-0912	226	SL-2722	65	SL-3963	472	SP-0792	229	ST-3327	483	SY-4084	240	TD-2119	349	TH-1872	216	TL-4140	351
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TS-1436	175	WA-7050	86	WC-7594	90, 395	WH-3073	161	WH-5659	166	WQ-7904	72	XC-0366	510	XC-4512	323	XC-4697	405
TS-1440	174	WA-7054	86	WC-7680	366	WH-3075	161	WH-5660	165	WQ-7905	72	XC-0369	512	XC-4514	323	XC-4698	405
TS-1441	174	WA-7056	86	WC-7682	366	WH-3077	162	WH-5668	166	WQ-7906	72	XC-0387	516	XC-4516	319	XC-4707	403
TS-1442	174	WA-7058	86	WC-7688	368	WH-3079	162	WH-5669	166	WQ-7911	73	XC-0389	516	XC-4518	335	XC-4718	403
TS-1445	174	WA-7062	87	WC-7689	366	WH-3080	161	WH-5670	166	WS-5502	165	XC-0390	519	XC-4520	335	XC-4731	403
TS-1465	175	WA-7064	87	WC-7693	366	WH-3082	161	WH-5671	166	WS-5504	165	XC-0392	519	XC-4522	322	XC-4732	403
TS-1466	175	WA-7066	87	WC-7700	392	WH-3087	162	WH-5672	166	WS-5506	165	XC-0400	510	XC-4524	324	XC-4733	403
TS-1468	175	WA-7068	87	WC-7701	392	WH-3090	163, 477	WH-5680	164	WT-5218	206	XC-0422	512	XC-4532	329, 332	XC-4734	403
TS-1470	175	WA-7070	86	WC-7702	392	WH-3091	163, 477	WH-5681	164	WT-5220	206	XC-0424	513	XC-4536	331, 332	XC-4738	403
TS-1475	175	WA-7072	86	WC-7703	392	WH-3092	161	WH-5682	164	WT-5316	206	XC-0430	513	XC-4540	335	XC-4743	403
TS-1476	175	WA-7074	86	WC-7704	392	WH-3094	161	WH-5683	164	WT-5320	206	XC-3900	316	XC-4542	330	XC-4744	403
TS-1485	175	WA-7078	87	WC-7705	392	WH-3121	41, 162	WH-5684	164	WT-5325	206	XC-4120	392	XC-4543	335	XC-4745	403
TS-1486	175	WA-7080	87	WC-7706	392	WH-3122	41, 162	WH-5685	164	WT-5326	206	XC-4124	392	XC-4544	319	XC-4746	403
TS-1502	181	WA-7084	87	WC-7707	392	WH-5510	164	WH-5686	164	WT-5330	206	XC-4126	392	XC-4545	319	XC-4747	403
TS-1503	181	WA-7088	87	WC-7708	392	WH-5511	164	WH-5690	164	WT-5333	206	XC-4128	392	XC-4546	329	XC-4748	403
TS-1504	181	WA-7090	87	WC-7709	392	WH-5512	164	WH-5691	164	WT-5334	205	XC-4132	394	XC-4547	332	XC-4749	402
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TS-1508	181	WA-7100	87, 137	WC-7723	366, 392	WH-5514	164	WH-5693	164	WV-7300	88, 424	XC-4136	394	XC-4549	320	XC-4752	402
TS-1510	181	WA-7102	87, 137	WC-7724	366, 392	WH-5515	164	WH-5694	164	WV-7304	88	XC-4149	405	XC-4550	320, 328	XC-4757	402
TS-1512	181	WA-7108	87	WC-7725	367, 392	WH-5516	164	WH-5695	164	WV-7306	88	XC-4150	405	XC-4551	327	XC-4782	402
TS-1513	173	WA-7500	86	WC-7726	366	WH-5517	164	WH-5696	164	WV-7308	88	XC-4215	330	XC-4552	331	XC-4834	394
TS-1514	173	WA-7502	86	WC-7727	366	WH-5520	165	WH-6012	500	WV-7316	88	XC-4227	337	XC-4553	336	XC-4839	392
TS-1515	173	WA-7504	86	WC-7728	366	WH-5521	165	WH-6014	500	WV-7318	88	XC-4232	319	XC-4554	337	XC-4847	394
TS-1516	173	WB-1500	158	WC-7731	366	WH-5524	165	WM-4502	160	WV-7320	88	XC-4243	323	XC-4555	336	XC-4867	105
TS-1517	173	WB-1502	158	WC-7733	366	WH-5525	165	WM-4504	160	WV-7321	88	XC-4245	329	XC-4556	326	XC-4871	396
TS-1518	173	WB-1504	158	WC-7741	363	WH-5530	164	WM-4508	160	WV-7324	88	XC-4249	318	XC-4557	338	XC-4879	396
TS-1519	173	WB-1506	158	WC-7743	363	WH-5531	164	WM-4516	160	WV-7325	88	XC-4254	323	XC-4558	338	XC-4884	392
TS-1520	173	WB-1508	158	WC-7746	73	WH-5532	164	WQ-7200	89	WV-7326	88	XC-4260	335	XC-4559	338	XC-4905	399
TS-1535	176	WB-1510	158	WC-7747	367, 392	WH-5533	164	WQ-7202	89	WV-7330	88	XC-4264	325	XC-4560	338	XC-4906	396
TS-1536	176	WB-1530	159	WC-7751	366	WH-5534	164	WQ-7206	89	WV-7332	88	XC-4269	329	XC-4561	338	XC-4926	402
TS-1538	176	WB-1540	159	WC-7753	366	WH-5535	164	WQ-7208	89	WV-7334	88	XC-4276	325	XC-4562	338	XC-4927	394
TS-1540	175	WB-1554	158	WC-7754	366	WH-5536	164	WQ-7217	89	WV-7336	88	XC-4284	329	XC-4563	338	XC-4929	103
TS-1542	175	WB-1556	158	WC-7755	366	WH-5537	164	WQ-7220	89	WV-7342	88	XC-4285	316	XC-4564	338	XC-4934	122, 399
TS-1554	175	WB-1559	158	WC-7756	363	WH-5540	164	WQ-7221	89	WV-7345	88	XC-4286	316	XC-4565	338	XC-4943	400
TS-1555	175	WB-1560	162	WC-7765	367	WH-5541	164	WQ-7222	89	WV-7347	89	XC-4288	316	XC-4566	338	XC-4952	401
TS-1556	175	WB-1562	162	WC-7766	367	WH-5542	164	WQ-7223	89	WV-7349	89	XC-4302	401	XC-4567	338	XC-4953	366
TS-1557	175	WB-1565	162	WC-7768	362	WH-5543	164	WQ-7224	89	WV-7350	92	XC-4306	401	XC-4568	338	XC-4955	366
TS-1564	172	WB-1568	162	WC-7770	392	WH-5544	164	WQ-7225	89	WV-7351	92	XC-4308	401	XC-4569	338	XC-4956	389
TS-1565	172	WB-1575	160	WC-7772	392	WH-5545	164	WQ-7226	89	WV-7352	92	XC-4350	340	XC-4570	338	XC-4958	401
TS-1566	172	WB-1578	160	WC-7774	392	WH-5546	164	WQ-7227	89	WV-7354	92	XC-4354	341	XC-4571	338	XC-4959	401
TS-1567	172	WB-1590	160	WC-7792	392	WH-5547	164	WQ-7228	89	WV-7360	92	XC-4356	341	XC-4572	339	XC-4961	396
TS-1574	173	WB-1591	160	WC-7796	392	WH-5550	164	WQ-7230	89	WV-7361	92	XC-4362	341	XC-4573	339	XC-4963	396
TS-1575	173	WB-1596	160	WC-7800	90	WH-5551	164	WQ-7234	89	WV-7362	92	XC-4364	341	XC-4574	339	XC-4965	396
TS-1576	173	WB-1598	160	WC-7802	90	WH-5552	164	WQ-7235	89	WV-7363	92	XC-4366	341	XC-4575	339	XC-4967	396
TS-1577	173	WB-1620	159	WC-7804	90	WH-5553	164	WQ-7236	89	WV-7364	92	XC-4380	328	XC-4576	339	XC-4970	405
TS-1578	173	WB-1622	159	WC-7824	369	WH-5554	164	WQ-7237	89	WV-7365	88, 92	XC-4382	320	XC-4577	339	XC-4971	397
TS-1580	176	WB-1700	160	WC-7900	366, 393	WH-5555	164	WQ-7238	89	WV-7366	88, 92	XC-4384	328	XC-4578	339	XC-4973	396
TS-1581	176	WB-1702	157	WC-7902	393	WH-5556	164	WQ-7239	89	WV-7384	88, 92	XC-4386	331	XC-4579	339	XC-4977	403
TS-1583	174	WB-1703	157	WC-7904	393	WH-5557	164	WQ-7240	89	WV-7385	88, 92	XC-4388	321	XC-4580	339	XC-4978	403
TS-1584	174	WB-1704	157	WC-7906	393	WH-5560	164	WQ-7250	89	WV-7386	88, 92	XC-4392	321	XC-4581	339	XC-4983	403
TS-1585	174	WB-1706	157	WC-7909	367, 393	WH-5561	164	WQ-7257	395	WV-7390	88	XC-4394	321	XC-4582	339	XC-4989	403
TS-1586	174	WB-1708	157	WC-7910	366, 393	WH-5562	164	WQ-7258	395	WV-7392	88	XC-4410	317	XC-4583	339	XC-4991	105
TS-1587	174	WB-1709	157	WC-7912	393	WH-5563	164	WQ-7259	89	WV-7394	88	XC-4412	321	XC-4584	339	XC-4992	403
TS-1588	174	WB-1710	157	WC-7920	366, 393	WH-5564	164	WQ-7275	424	WV-7396	88	XC-4414	318	XC-4585	324, 340	XC-4993	403
TS-1589	174	WB-1712	157	WH-3000	163	WH-5565	164	WQ-7276	424	WV-7450	88, 92	XC-4416	336	XC-4586	340	XC-5054	243
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TS-1620	171	WB-1740	157	WH-3003	163	WH-5570	164	WQ-7279	424	WV-7456	88, 92	XC-4420	317	XC-4590	340	XC-5072	392
TS-1622	171	WB-1754	157	WH-3004	163	WH-5571	164	WQ-7280	424	WV-7914	72	XC-4422	327	XC-4592	329	XC-5073	392
TS-1640	172	WB-1762	157	WH-3005	163	WH-5572	164	WQ-7281	424	WV-7915	72	XC-4424	319	XC-4593	316	XC-5078	203, 391
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TS-1642	172	WB-2002	159	WH-3007	163	WH-5574	164	WQ-7285	424	WV-7917	72	XC-4427	322	XC-4595	320	XC-5084	391
TS-1643	172	WB-2004	159	WH-3009	163	WH-5575	164	WQ-7288	155	WW-4012	163	XC-4428	333	XC-4596	322, 331	XC-5120	399
TS-1644	172	WB-2005	159	WH-3010	163	WH-5576	164	WQ-7289	155	WW-4013	163	XC-4430	317	XC-4597	331	XC-5130	400
TS-1645	173	WB-2009	159	WH-3011	163	WH-5577	164	WQ-7290	87	WW-4014	163	XC-4434	333	XC-4600	334	XC-5146	400
TS-1651	176	WB-2010	159, 376	WH-3012	163	WH-5582	164	WQ-7291	87	WW-4016	163	XC-4438	319	XC-4601	329	XC-5172	400
TS-1652	176	WB-2012	159	WH-3013	163	WH-5584	165	WQ-7292	87	WW-4018	163	XC-4440	325	XC-4602	327	XC-5174	400
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